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MARCH 1932

The American Home

Doubleday, Doran & Co., Inc.

10¢

GARDENING NUMBER

Tools, Supplies, Seeds, and Bulbs
to Make the Garden Beautiful

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The American Home

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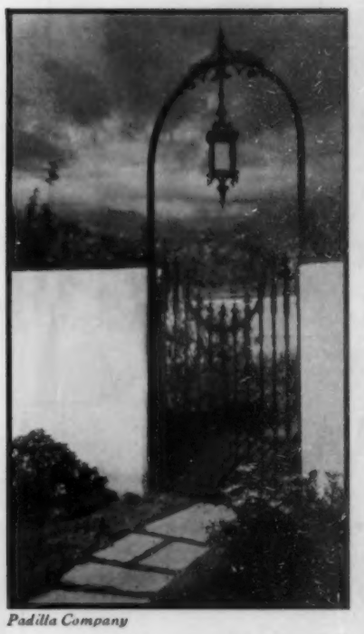

Padilla Company

Cement

THERE is a home into the foundations of which there has been cemented the very feel of the soil itself—the rapture of May mornings, the calm of October sunsets. And as those who live in it look out of its long windows onto the passing pageant of the seasons, they too, seem somehow to be significant parts of the countryside which the house dominates in so virile a manner.

It was Keats who said once: "If poetry comes not as naturally as the leaves to a tree, it had better not come at all." Home-keeping and home-loving may never be forced. A restless cross section of America, always on the move, unable to identify themselves with any certain locality, will find little of interest in such magazines as THE AMERICAN HOME. Here we are writing and editing, reporting and interpreting, for you who are familiars of tranquility, comrades of the soil and sun. Apart a little from the roar and clatter of the highways, who can say that your home lives, after all, may not give to American civilization its deepest and most lasting significance? Whatever passions sweep men, whatever systems come and go, these things remain: a home and a garden looking towards a crimson twilight, and over it all that serene sense of security which never rests upon the fluttering wings of any bird of passage.

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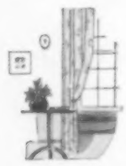

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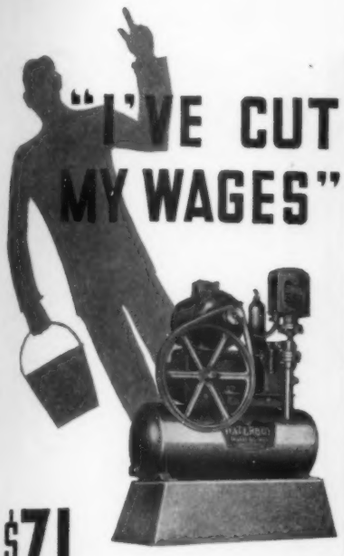

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2-3

if the Social Season has left you fagged

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At night, massage the throat and chest well with Vicks VapoRub (now available in white *stainless* form, if you prefer). VapoRub acts like a poultice or plaster and at the same time gives off medicated vapors which are inhaled all night long.

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The garden is a fascinating place, whether we walk among its flowers or look at it from within. Outdoors its fragrance allures us, but framed by a window its glorious colors and interesting arrangement become a perfect living picture. In this particular sunporch window each small pane is a study in itself

Through the Sunporch Window

The absolute certainty of rich masses of brightly colorful blooms, given any reasonable sort of opportunity to grow, assures the annuals a permanency in our affections. They are the stand-bys for the new garden and the mid-summer reliance in the established border. Zinnias, Calendulas, Snap-dragons, and edging of Ageratum are dominant in this garden of annuals

Annuals

The high lights and lesser lights

by LAURA MARK BRAYTON

THIRTY annuals we *must* have! It seems a lot when grouped together in this way; but who that has grown these annuals would wish to relinquish them? Surely, not I.

Annuals, as nearly every one knows, are sown in the spring—inside if possible about March 6th to give them an early start, or directly in the ground about the middle of May if indoor facilities are not at hand. If sown out of doors, the gardener is apt not to have enough courage to thin the plants sufficiently to give them enough room for proper development. Nature is lavish with her seeds, and spring's warm sun and gentle rains germinate many more seeds than the average garden can accommodate. The gardener must harden his heart against these engaging green babies and thin them ruthlessly to about ten inches apart for most annuals, though there are exceptions to this rule as will be seen later. The annual will be born, grow, come to full beauty, and die from maturity or from frost in that season. Their span of life is so short that they seem to make up for it by the profusion of their blossoms.

Annuals are splendid for combining with perennials to help carry color into spots that otherwise would be bare when these regular inhabitants shall have ceased to bloom. Our August and September gardens would indeed be sparsely furnished if annuals were omitted. Also gardens of annuals in themselves would not come amiss if the space could be devoted to them and wonderful color schemes and combinations could be evolved.

LET us start at the beginning of the alphabet and run through those I have found most desirable.

Ageratum. Many gardeners do not realize the beauty of this low growing annual. It makes splendid borders of lavender-blue fuzzy flowers and is fine for picking. An early start in the spring prolongs its blooming period ever so much. It seeds itself quite freely and the seedlings that come up in the spring bloom quite early and freely. There is a white variety but I do not care much for it. The flower heads go to seed quite quickly and so should be kept cut to keep the plant trim and neat. If (*Continued on page 366*)

Recent Roses

of real merit

by J. HORACE McFARLAND

ANYONE who keeps looking at the superabundance of "new" Roses annually flooded upon us by our industrious and sanguine foreign friends (and who assume to set the world's Rose fashions) is likely to be discouraged. He sees the new crop —209 varieties from all the world were described in last year's American Rose Annual—obviously differing but little from other similar superabundant crops. He has little trouble in observing that many of them are merely "ringers" for old friends.

But when he takes into account a generation of time, or half as much, definite advance appears. We have to-day many more truly better, more useful, more pleasing Roses than were available twenty years ago. The now subordinate Crimson Rambler, handled in America with true commercial genius by the old Ellwanger & Barry firm, flashed its real advance across the country in the last years of the nineteenth century. Excelsa, Paul's Scarlet Climber, and now Scorcher have almost put it out of remembrance. It is a far cry from the Baltimore Belle of my boyhood to the Dr. W. Van Fleet and Mme. Gregoire Staechelin of to-day. I still love Hermosa, that dependable old Bourbon which was almost the only resource in its class when I was a boy, but now a thousand pink Hybrid Tea Roses put out its eye.

Taking stock of Roses at the beginning of 1932, we will need to admit, however, that the greater advance is in the so-called Hardy Climbers, which are not always surely hardy and which in the strict botanical sense never do climb.

The first "break" from the Prairie Queen and Crimson Rambler days came toward the larger-flowered, brighter-colored hybrids with Rosa wichuraiana and its progeny. It is now toward Climbing Roses that bloom more than once, and which I dislike to call improperly "everblooming." Let me interpose here that there is a demand upon Roses to do what we do not expect, and probably do not sincerely desire, to have our Forsythias, our Lilacs, our Spireas, Deutzias, and other woody plants do. We demand "everblooming" Roses, as if that grand June burst of beauty and joy were not enough.

But Dame Nature is responding to our unreasonableness. From the first blooms of the lovely Rosa ecae in late April or early May to the last frost-resenting buds on many Hybrid Teas, the queen of flowers extends her sway over almost half the year. Any careful Rose lover may now have at

The Large-flowering pale pink Climbing Rose Dr. W. Van Fleet marked a new step in progress on its arrival. It now comes in a "continuous" blooming form as New Dawn, as a pioneer of a new rose type

Edith Nellie Perkins, a lovely orange, yellow, and salmon-pink combination

Thomas A. Edison is a recent addition to Hybrid Teas in the pale pink tones

least twenty weeks of beautiful bloom, and this itself constitutes a notable advance over the possibilities of a generation ago in the United States.

Let us just now consider the accommodatingly recurrent disposition of some of the newer hardy Climbers. The first plant patent has been granted to New Dawn, upon the claim that it is a constant-blooming Dr. W. Van Fleet. Curiously enough, I have heard of three other instances of recurrent Van Fleet bloom in the fall of 1931 on established plants, which gives rise to some speculation as to whether Dame Nature will have to answer to patent infringement suits!

I have likewise seen indubitable evidence that Paul's Scarlet Climber has adopted a recurrent-blooming disposition through hybridization with Gruss an Teplitz, and I am informed that plants to prove this claim will soon be in commerce.

THEN there is the dainty English lass, Phyllis Bide, giving us occasional pleasing flowers on new wood of the year, as does its older French sister, Ghislaine de Feligonde. I should not like to be without either.

And some of Captain George C. Thomas's many seedlings are fine recurrent bloomers in his Beverly Hills rose paradise, making one devoutly anxious that California spill over upon the waiting East this same quality. Just here I must sorrowfully admit and insist that the glory of Roses I saw in San Diego, San Jose, and Santa Barbara last April hesitated at the Sierras.

Many of the aggravating Climbing Hybrid Tea Roses that seem to spend their energy in growth rather than in bloom do give us an occasional fall bloom. But the new Australian immigrant, Scorcher, which has since 1928 been showing me in June the enormous scarlet-crimson blooms that justify its name, has now manifested a disposition to flower considerably in October on plants budded on Japanese multiflora, which introduces the hope (*Continued on page 373*)

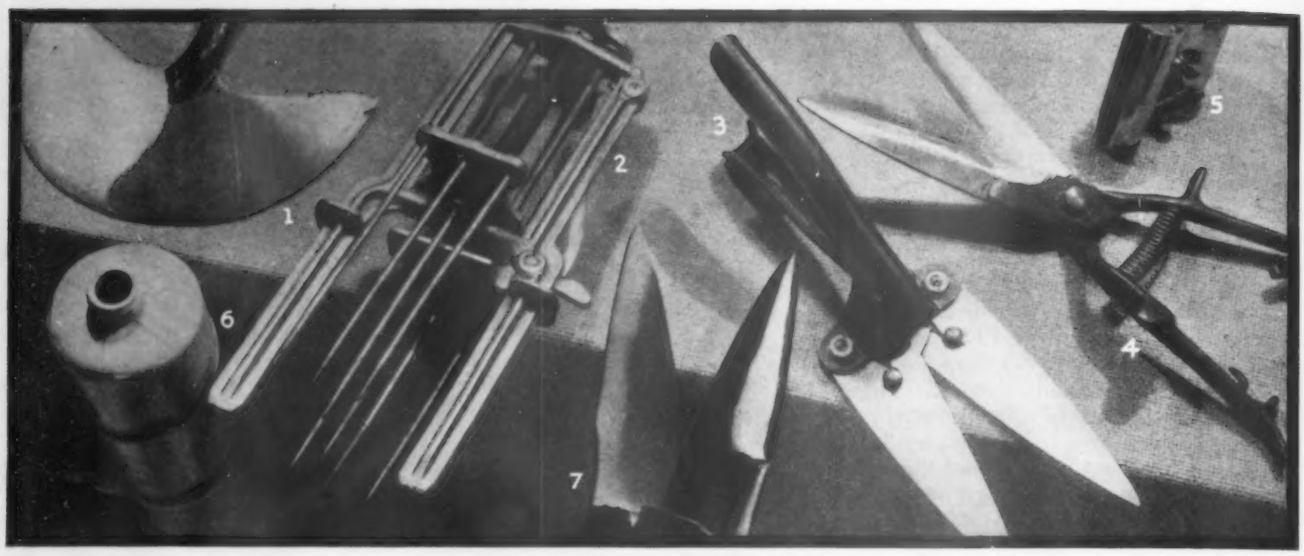
Bonnie Prince, a Pacific Coast creation, is a very hardy Climber; white faintly tinged with yellow

Kardinal Piffl, a European addition to the shrimp-pink yellow-tinged group

Scorcher, well named indeed, is a very welcome immigrant from Australia

Olympiad glows in fiery red, and is one of the newest comers among the Roses

Margaret McGredy also interests because of its novel shade of scarlet coloring



To Dress, Feed, and Weed the Lawn

Implements courtesy of Max Schling Seedsmen, and W. E. Marshall & Co. *Keppler*

(1) Grass edger of forged steel. (2) Self setting mole trap; very little exposed above ground. (3) Wiss Klip grass cutter; down pressure handles with horizontal cut. (4) Grass shears with 7-inch blade, for trimming. (5) Handy sharpener for lawn mower blades; also useful for spades and hoes. (6) With the automatic Lawn-Vex attached in the hose line, you fertilize while watering. (7) The tried and true sheep shears with blade, spring, and handle all one piece. (8) Border shears for trimming along walk edges, etc. (9, 10, 11) For eradicating Dandelions and other weeds. Out-U-Kum extracts by leverage. The Red Cat (10) has a poison reservoir, and in (11) the weed killer is contained in the hollow of the tube. (12) Doo Klip grass shears on wheels with long handle. (13) Self cleaning Gem dandelion rake. (14) Lawn rake of flexible Chinese bamboo. (15) Sod perforator of heavy iron spikes which open way for fertilizer to filter to the roots; also aerates. (16) Roller brush of flexible whalebone well designed to disturb the peacefulness of ant hills. (17) Steel lawn comb patterned similarly to the Chinese bamboo rake, equally flexible

SUCCEEDING *with* Succession

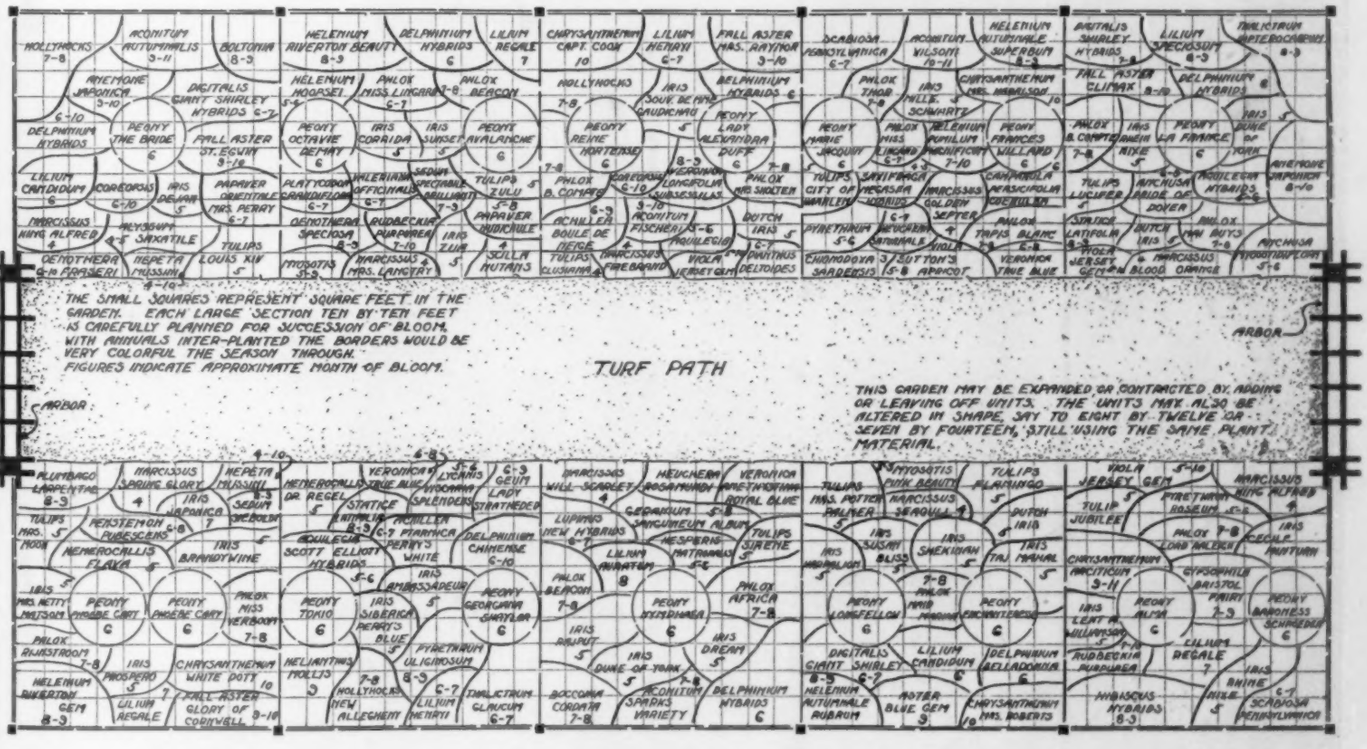
by ROMAINE B. WARE

A SUCCESSFUL garden is made much as the old-fashioned cook concocted her delectable dishes—just a little of this and a little of that with a dash of something else. Repeated tasting secured the desired results. Gardens are made much the same way, each year seeing something new added, something different tried. There are no defined limitations in gardening, and no two gardeners build the same way. It is important, however, that certain rules and general principles be followed.

Continuous color throughout the length and breadth of the border is the dream and ambition of all gardeners. Few of us enjoy such extensive acreage that separate gardens may be planted for individual seasons. Continuous color, with a large majority of plants remaining in bloom but a few weeks, is not so easy. Plan as we will, occasional blank spaces seem inevitable. Peonies, for example, provide gorgeous masses of color for a few weeks; but, with each plant occupying a large space, there is a long season without color unless special plans are made. And right there is the secret of continuous bloom, planning definite successions throughout the various sections of the garden.

It may take many years' study and experimentation to attain the perfection you long for, but if you will study each section separately you can eventually succeed. Many factors must be considered in working out plans, one of the most important being a good knowledge of plant material. This must come gradually by experiment and experience. Year by year you will learn more of the habits and needs of the numerous species. And as you become familiar with varieties they may be worked into your schemes. This is something you cannot learn from books, nor by being told, though reading on garden subjects is most important. Each individual section of the border must be studied and worked with through many seasons.

A NARROW border, say less than five feet wide, will be found more difficult than wider ones. Seven to ten feet is ideal. Narrow borders do not allow for enough varieties to keep up the display, nor is it possible to plant sufficiently large masses in a narrow space. Of course, it is unwise to make the masses of any single variety very large at any time. Large groups are ideal when in bloom but afterwards they leave equally large areas that are devoid of color and this is the very thing we are seeking to avoid. A border containing too many (*Continued on page 376*)


THE SMALL SQUARES REPRESENT SQUARE FEET IN THE GARDEN. EACH LARGE SECTION TEN BY TEN FEET IS CAREFULLY PLANNED FOR SUCCESSION OF BLOOM, WITH ANNUALS INTER-PLANTED THE BORDERS WOULD BE VERY COLORFUL THE SEASON THROUGH. FIGURES INDICATE APPROXIMATE MONTH OF BLOOM.
TURF PATH
ARBOR
ARBOR
THIS GARDEN MAY BE EXPANDED OR CONTRACTED BY ADDING OR LEAVING OFF UNITS. THE UNITS MAY ALSO BE ALTERED IN SHAPE, SAY TO EIGHT BY TWELVE OR SEVEN BY FOURTEEN, STILL USING THE SAME PLANT MATERIAL.
SCALE IN FEET
0 2 4 6 8 10

PLANTING PLAN FOR AN ALL-SEASON BORDER

Making the new LAWN

by H. A. HUSCHKE

THE lawn is literally the setting on which is painted a picture—not in paints but with plants and structures. Without a good lawn much of the effectiveness of the other parts—trees, shrubs, flowers—is lost. Yet there are far too few well-kept lawns.

Now in lawn making as in many other tasks "a good start is half the journey." Careful attention to three steps represents the "good start." Briefly: (1) proper grading and drainage; (2) thorough seedbed preparation; (3) good seed. To slight any one of these is likely to mean an unsatisfactory finished product, ruining the desired effect.

In grading for a lawn, avoid steep slopes and terraces. The very apparent reason for this is that the water drains too readily from steep inclines, and more often than not the grass struggles along in a rather unthrifty state. Besides, it is not usually considered fun to push a lawn mower up, down, or alongside of terrain which has a pitch similar to the roof of an English cottage. On the other hand, a gentle slope is most desirable, to provide the normal drainage necessary. If the ground be level and the soil of a type which will not drain freely, provide underground tile drainage. Low spots and hollows should be filled in when grading for a lawn.

After the rough grading is done the next step is the preparation of the seedbed. Remember that the lawn is a permanent crop and so much depends on the seedbed that it is almost impossible to overemphasize the need for care and attention to the several details at this stage of the preparations.

One of the most common and fatal mistakes is to sow the seed in soil which is unfit for any crop, let alone grass seed. Many times, in excavating for the cellar, the subsoil is piled on top. Later, in grading, this unfertile soil is distributed about on top of the lawn without any regard to its incapabilities. The best procedure is to separate the topsoil from the subsoil as the cellar is being dug. The subsoil can then be used to fill in the low spots and the topsoil should be put on top. If not (*Continued on page 378*)

A good grass lawn constitutes at least one half of the interest and appeal of a garden view. A corner of a real Bluegrass lawn in our American Home trial grounds

Costain

Garden Fragrance *from shrubs*

by ROBERT T. VAN TRESS

NO REASON at all why the shrubbery should not be deliberately planted with some regard to the fragrance of flower or foliage. Who does not remember the sweet-scented Mockorange, or the fragrant Lilacs in grandmother's garden, and how often are pleasant memories awakened by a sudden whiff of some forgotten shrub?

The Sweetshrub or Carolina Allspice (Calycanthus floridus), while a native of the Southern states, is quite hardy northward. The purplish brown or reddish brown flowers have a peculiar but delicious perfume. It is an upright, spreading shrub, four to five feet in height, which delights in a rich, moist soil in a partially shaded and sheltered situation, where its perfume seems all the more appropriate. Flowers, leaves, and wood participate; the branches exhaling a camphor-like odor, and the bark is said to have been used as a substitute for cinnamon in former years. Although the flowers are not produced abundantly, the Sweetshrub is long lived and comparatively free from insect pests and diseases.

Another native is the Summersweet or Sweet Pepperbush (Clethra alnifolia), abundant in swamps, woodlands, and moist places, the sweet smelling spikes of bloom are borne in great profusion, during July and continue until September. The flowers too are full of a sweet nectar sought after by bees. This is a particularly good plant for naturalistic gardening, and is most effectively used in clumps along the bank of a stream. It prefers moist, sandy, or peaty soil and partial shade.

An up-to-date improvement over the old-time Mockorange with more and larger semi-double flowers is Bouquet Blanc (top)

Garlandflower, low growing bright pink, strongly fragrant and flowering almost continuously; but none the less somewhat tricky as to soil (above)

Flowering before others of its kind Father Hugo's Rose, single, golden yellow in wreathing branches is welcome to the shrub border (right)

Caucasian Daphne, a fairly new comer to our garden, is taller than the well-known Garlandflower, having equally fragrant white flowers in spring (below)

The Sweetfern (Comptonia) is an exceedingly hardy, graceful little shrub but seldom seen in cultivation. The flowers are inconspicuous, but the small fernlike leaves are aromatic, and give off a pungent odor when crushed. Grows two to three feet in height and will thrive in a soil so sterile that nothing else will thrive but has a preference for peat or sand. It would be useful for low hedges if carefully pruned and the suckers removed from the base.

Bigflower Broom (Cytisus supinus), as well as other members of this genus, such as C. nigricans, C. hirsutus, or C. spachianus, bears terminal clusters of fragrant yellow flowers in July. It is a bushy plant with downy, yellow-green leaves, two to three feet in height, the pale yellow flowers of which are an inch in diameter. The other species mentioned have golden yellow flowers. The Brooms kill back to the ground during the winter in the North (and near Chicago) but come up as vigorously as ever in the spring. They are of exceptional merit in the foreground of the shrubbery border, blooming at a time when few other low shrubs are in flower.

The new French hybrid Mockoranges surpass the old dooryard kind in great profusion of large sized bloom. Albatre, above, is typical of the group

An evergreen dwarf shrub of great beauty, by some considered the most charming plant in cultivation, is Rose Daphne or Garlandflower (Daphne cneorum) native of the mountains of Switzerland, growing naturally in moist soils and sheltered situations. The terminal heads of pure deep pink, intensely fragrant blossoms are borne in May and again in September, and form a splendid contrast with the dark green, lustrous leaves. The Garlandflower has strong likes and dislikes, thriving well in some gardens and a complete failure in others. The best situation is a well-drained peaty or sandy alkaline soil in full sun. It is adapted for the rock garden or as an edging shrub for evergreens in a foundation planting. It survives the Northern winters best if given only a light covering of straw, allowing the air to circulate freely, yet protecting it from the winter sun.

A PERFECTLY hardy species is its near relative Daphne caucasica, still rare in cultivation. This is an upright shrub four to six feet high, blooming profusely in May with beautiful, white fragrant flowers. The leaves are one to one and one half inches long, bright green, smooth, and appear to be disease resistant. This surely will be a popular shrub when it is better known.

A large shrub suitable as a background to shrubbery borders or as a specimen plant is the Russian Olive (Elaeagnus angustifolia), treelike in its proportions, attaining a height of fifteen to twenty feet and hardy in the coldest regions. With its leaves which are light green above and silvery below, silvery branches, and yellowish fruit covered with silvery scales, it is a striking object in the landscape. The flowers, although tiny, possess an exquisite fragrance, and are produced in June. Even more silvery in appearance is Silverberry (Elaeagnus argentea), growing to a height of six to twelve feet, with brown branches and fragrant silvery flowers. Two other species worthy of mention for the attractive red fruits are E. longipes and E. umbellata, the fruit of the latter being edible.

Among this group of sweet-scented shrubs the earliest to bloom is Fragrant Bush-honeysuckle (Lonicera fragrantissima). For a shrub of medium height, four to six feet, it cannot be surpassed by any species for general usefulness, being a semi-evergreen holding foliage far into the winter. Although the creamy white flowers are small, they fill the air with delicious perfume during March and April. It is not particular as to soils, but prefers a sunny situation. The bright red fruits in June are an added attraction for this versatile shrub. Any shrub of this kind that holds its leaves late in the fall should be transplanted in the spring before it leafs out.

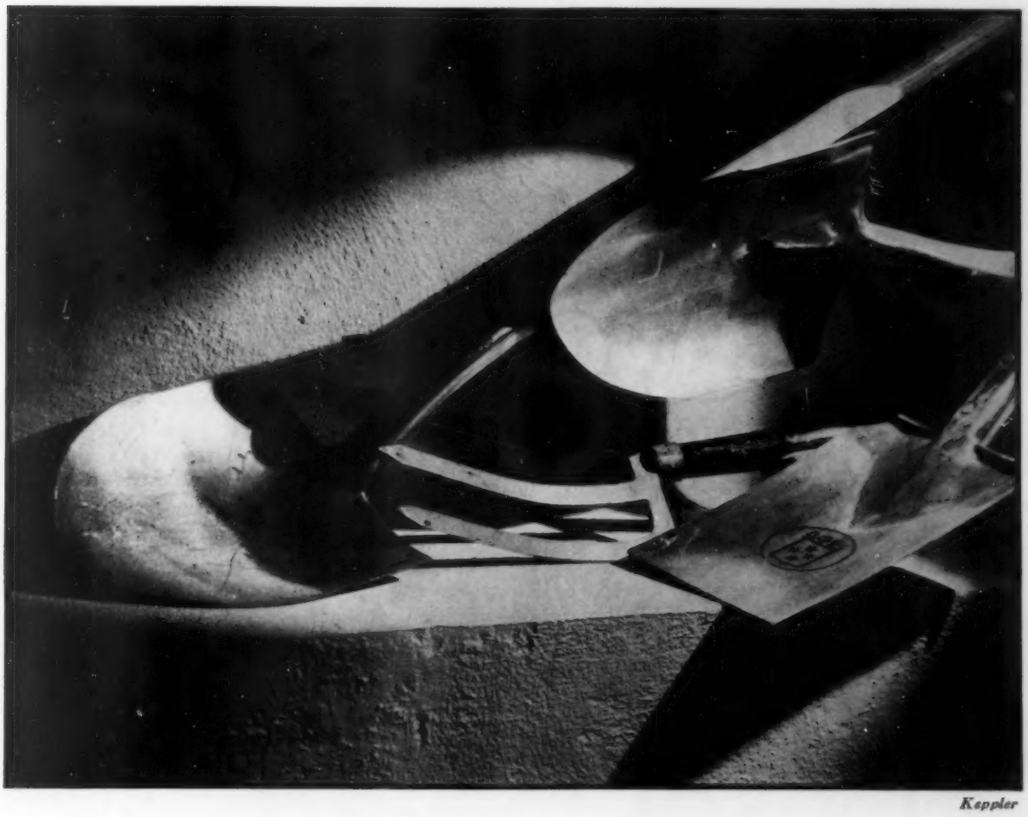
ANOTHER Bush-honeysuckle of equal value in the shrubbery border and also especially suited for specimen planting is the Amur Honeysuckle (Lonicera maacki), a large, treelike shrub with spreading branches rapidly growing twelve to fifteen feet high. In June the bush is covered with large, white, fragrant flowers to be followed by brilliant red fruits in September, making a beautiful contrast with the green leaves. I consider this one of the most ornamental fruit-bearing shrubs for autumn decoration.

Mockorange (Philadelphus coronarius), long well known, was one of the first woody plants brought to this country, and though surpassed in profusion of bloom by the newer sorts, it is still unsurpassed in fragrance of flowers and beauty of foliage. From eight to ten feet tall, it spreads at maturity like the head of an Elm. It is early in leaf; the foliage is luxuriant and breaks into fine masses. The white, single blossoms appear in June and are about the size of an apple blossom.

The great French hybridist, Lemoine, by crossing P. microphyllus with P. coronarius, introduced a noteworthy hybrid (P. lemoinei), of different habit, having slender twigs and smaller leaves. The blossoms, while retaining the fragrance of their parents, are produced in greater abundance. In this group will be found the large flowered popular shrubs of to-day—Avalanche, Girandole, Candelabre, Mont Blanc.

By crossing P. lemoinei with other species and hybrids Lemoine further produced a wonderful array of horticultural varieties of Mockorange. A few of the best of these are Albatre, Argentine, Atlas, Bouquet Blanc, Glacier, Virginal.

One of the best plants to connect the larger shrubs with the lawn area is the Fragrant Sumac (*Continued on page 363*)



Keppler

Use the spading fork or the square-ended spade for real digging (lower right, above). On light soils the fork is efficient but use the spade on a heavy soil. Use long- or short-handled shovels for lifting and scooping cultivated soils after thorough digging (Keen Cutter long-handled shovel and digging fork; Ames spade and short-handled shovel)

Dividends from Digging

About one third of the garden should be thoroughly dug over and fed each year by one of the methods described. This assures good crops in drought

by T. H. EVERETT

A STORY is told of an old man who on his deathbed advised his sons that a hidden treasure lay buried in his vineyard, and urged them to go forth and dig until it was uncovered. After the old man had passed away the sons did as he bid them, expecting to find a hoard of gold and precious stones. They dug diligently, turning over and carefully examining every particle of soil to a great depth, but without result, and finally they gave up the task not a little disgruntled and blaming their father for his eccentricity. The following season the vines bore immense crops of fruit and then the sons recognized the treasure which was the promised reward.

This is indeed a story having a worth while moral, for proper preparation of the soil by deep digging is the very foundation of successful gardening. A thoroughly prepared soil of good depth will give good returns with comparatively little manure or fertilizer, a shallowly worked soil is quite incapable of producing its best even if supplied with large quantities of plant foods.

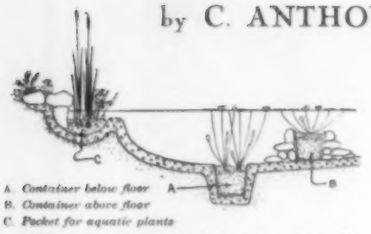
Deep digging admits air to a greater depth and encourages the roots to go down in search of moisture and food materials. This is of particular importance in times of drought when it will be observed that crops on well-prepared land come smiling through, while the others accorded less favorable treatment in this respect are exhibiting unmistakeable signs of distress. By following an approved system of digging the soil is gradually deepened and enriched because the effects are cumulative.

For clean work a spade is usually the most effective tool to use, although occasionally on stiff (*Continued on page 380*)

Water Gardens

in the making

by C. ANTHONY VAN KAMMEN



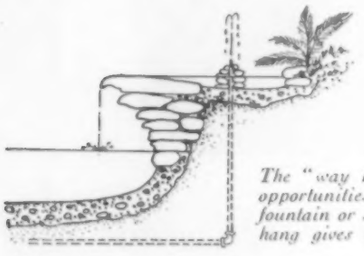
Make convenient pockets as construction starts with marginal wells for swamp and marsh plants

UNLIKE the flower bed a water garden when once constructed needs very little attention. There are no weeds to remove and no cultivating to do. Nor need one worry about lack of rain. After the roots are placed and the water level has been attained, nothing is required beyond replacing what water may evaporate. A few fish in the pool will help to keep the water fresh and free from mosquito larvae, and a frog or two will give additional life to the pond. Some people object to the frogs with fish because they eat the fish spawn, but I consider the pool primarily a water garden where the raising of fish is secondary. When draining the pool, for winter, besides removing the nine original gold fish, I seined out sixty-four additional small ones, despite the presence of the frogs.

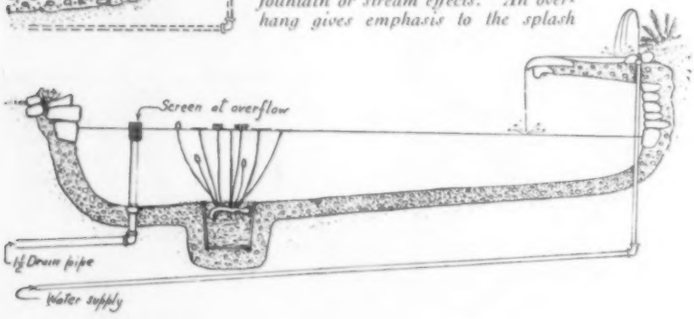
Any one having mechanical ability, and who is not afraid of a little hard work, may construct a very attractive water garden at small cost. The larger the pool, of course, the greater the expense, as more materials are needed. The entire cost of my own water garden including screened sand, gravel, water supply and drain pipe, and cement was less than forty dollars. All labor was done by myself and another member of the family. A similar water garden built by a landscape contractor would have cost four times as much.

Where running water is available several pools of varied levels make an effective water garden, especially if located on a sloping lot. The source of water supply may be hidden, giving the effect of a bubbling spring, or it may spurt upward like a tiny fountain. But though the water has the appearance of a stream or spring the pools should really have very little current in them. Waterlilies thrive best in well-sunned, quiet, shallow ponds.

The sound of water trickling over a rock ledge to the surface of the pond a few feet below is pleasing, and may be attained by constructing a rock garden at the further end of the pond with a wall overhanging (*Continued on page 372*)



The "way in" for the water offers opportunities for ingenious devices in fountain or stream effects. An overhang gives emphasis to the splash



The perfect plan, which, of course is quite essential for a large water garden, provides for waste and drain as well as supply; but small pools may be fed by the hose as needed, and emptied by baling

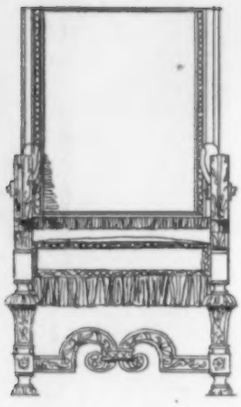
Modern

At the President's Conference on Home Building there was much interest in modernistic architecture. Some of the delegates believed that the modern style, using new materials and new methods of building, would be useful in developing and building the $5,000 houses for which there is so much demand. For this reason we are especially glad to publish a modern house, costing $5,000, that has actually been built. A. Lawrence Kocher and Albert Frey were the architects and the house has been built at Syosset, Long Island, N. Y. The design aims "to give better light and air with mechanical conveniences and efficiency of arrangement that are unheard of features of the average suburban dwelling." The cost of building this house would probably be $4,000 to $5,000 anywhere in the United States

The outside walls are faced with aluminum sheets slightly ribbed to overcome glare and to allow for expansion and contraction. Behind the aluminum is enough insulation to make this 3-inch wall as weatherproof as the usual heavy masonry one. The walls are not used for support but are hung from cantilever beams which project from six slender metal columns, shown in the floor plans. The ground floor serves for entrance, hallway, heater room, and garage. There is also a first-floor porch as shown in the photographs above. One may enter the house through the front door or the garage. The living room is two stories in height and one end is made up of windows 17 feet high extending from floor to ceiling. The dining room, which connects with the living room and is, in fact, part of it, is only one story high. Over the dining room end of the living room is a library which might be used as a bedroom. A lavatory and shower bath are attached to it. The main bedroom is separated from an exercise room and bathroom by a folding partition. The outside wall of this suite of rooms is entirely of glass and when the partition is folded the wall becomes a single window 22 feet in length. The partly covered terrace with a bit of lawn and some shrubbery is placed over the bedroom and bath. The dumb-waiter, marked DW, runs through the three floors

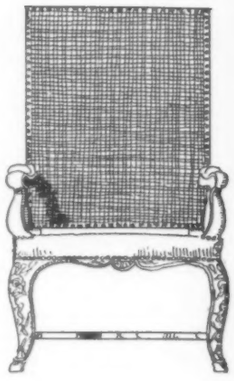
A Course in Furniture

XII. The Furniture of the Three Louis



The furniture of Louis XIV was superb, massive, and expensive, and was most appropriate for use in the vast architectural settings of the day. There were three periods in the reign of Louis XIV. The first period shows a strong Italian influence, due to the patronage of Cardinal Mazarin; the second was ruled by the taste of the young king recently come into his full power; and the third is symbolic of the gorgeous extravagance of a sovereign who could say, "L'Etat, c'est Moi"

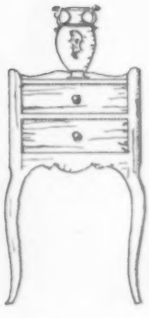
The progressive change in the blending of the Louis XIV style with that of Louis XV showed in the transformation of vast galleries and chambers which gave the impression of cold grandeur into cosy, intimate, well-warmed rooms in which life could be really enjoyed. The furniture, to keep pace with this development, became smaller in scale and more comfortable in construction. In the height of the Louis XV period it showed unequalled ornateness and elaboration



Drawings by **LURELLE GUILD**

L

XIV



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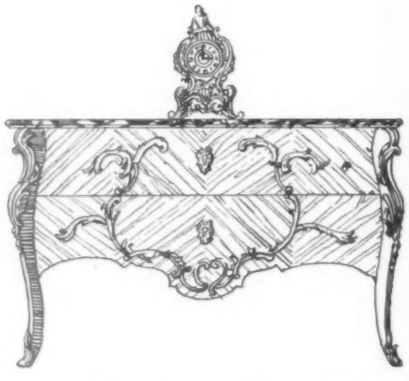
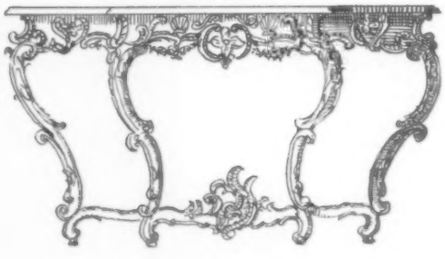
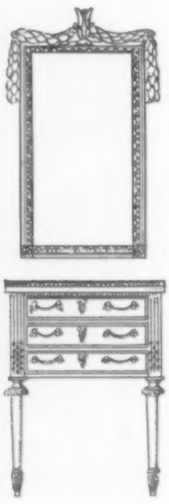
XV





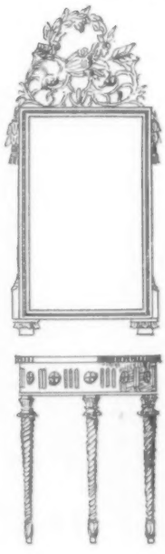
The furniture of Louis XVI returned to austerity in line and shape, and rectangular bodies with straight lines and right angles in legs and ornament appeared. This period was one of elegance, and is the one usually chosen in which to develop a typically French interior in a modern house or apartment. We recognize classic models from Greece and Rome, whose designs have been modified to appear as characteristic elements in this austerely beautiful period of cabinet making

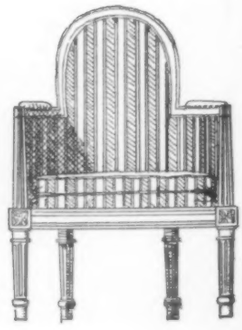
The Louis XVI pieces give an impression of grace and charm since their proportions are well studied, and the ornamentation adds just the necessary amount of richness. The bronze ornaments are delicately wrought; in fact all the characteristic metal decoration was treated like goldsmith's work, and included classic motifs like baskets of fruit or flowers; lovers' emblems; branches of oak, ivy, and laurel; knots of ribbons; and all the symbols of war, music, and the pastoral life



L

XVI





THE furniture of Louis XIV was a typical product of the magnificence of his long reign. The earlier examples were fairly simple with graceful curves and straight lines in harmonious proportions. Many of the cabinets and *garde-robes* had the well-proportioned panels with charming moldings which are associated with this period. As the passion of the king for sumptuousness increased, the cabinet making, like its attendant arts, became more ornate and florid. Under royal patronage the palace of Versailles was built, the factory at Gobelin turned out wonderful tapestries, Boulle, the famous cabinetmaker of the Louvre, combined brass and tortoise shell with ebony in his extravagant pieces, while the silversmiths wrought furniture and jardinières for orange trees from solid silver. Architecture, furniture, and life itself was on the grand scale during the reign of the Grand Monarque.

The style of Louis XV blended with that of the Louis XIV period so imperceptibly that there is practically no line of demarcation between them, but gradually the scale of the furniture was modified to suit the architectural changes, and the bureaux, commodes, and easy chairs adopted more languid flowing curves, and richer detail. The vast halls of Louis XIV became the intimate cosy salons, boudoirs, and little writing rooms of Louis XV, and in them the wits and beauties of the day held their gay soirées, or intimate conversations. Chairs and tables became light that they might be moved about easily, ottomans, *lits de repos*, and *chaise longues* were given springs and softly cushioned with rich silks and velvets, while the wide-seated armchairs with set back arms accommodated the spreading brocades and hoops of the women of fashion.

DURING Louis XVI's reign furniture underwent a radical change, and the graceful curves disappeared in the rage for the classic which swept the civilized world. The ornate rococo gave way to a more restrained type with turned and fluted legs, and rectilinear bodies. Mahogany appeared in cabinet making, being imported from the Antilles, and Marie Antoinette used it for the parquet floor of her boudoir at Fontainebleau. There was much use of inlays, in wood, brass, bronze, and porcelain. Designers specialized in beautiful chairs, and in a great variety of incidental tables, including the *tricoteuse*, or knitting table, the *table à fleur*, and the charming small writing tables which often figured in pictures and prints of the era. The furniture of Louis XVI has a delicacy and individuality which has provided inspiration for generations of cabinetmakers even to the present day.

The painted frame of this Louis XV lit de repos *has the graceful curves typical of the best pieces of the time. It is covered in antique damask.* (*Belmaison, John Wanamaker*)

The straight fluted legs and striped brocade upholstery are characteristics of the charming Louis XVI period in cabinet making. (*Jacques Bodart*)

The beautiful proportions and delicate details of this Louis XVI armchair are triumphs of the cabinet making art. (*Cassard Romano*)

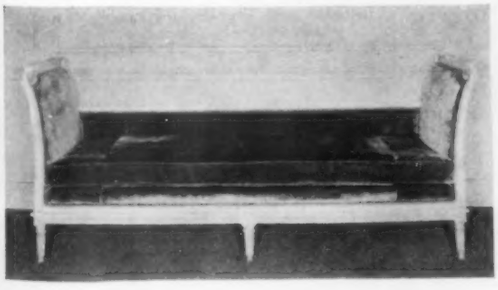
The lines of this Louis XV armchair express style to a preëminent degree. (*Cassard Romano*)

A gay painted Louis XVI occasional chair suggests the amiable gallantries of those carefree days. (*Jacques Bodart*)

This commode, copied from a Louis XVI original, is enhanced by the mirror of the same period above it. (*Stern Bros.*)

Right: Commode with ormulu hardware, a Louis XIV reproduction. (*Jacques Bodart*)

A low, well-cushioned day-bed, with a unique back rest has fine proportions and lines distinctive of its Louis XVI period. (*Jacques Bodart*)

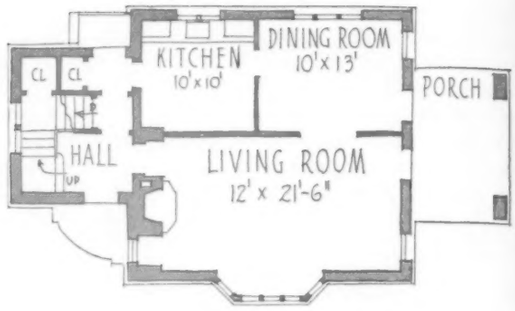


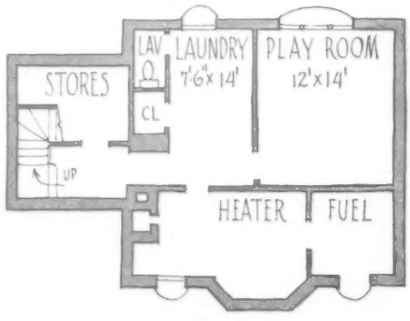
HALF TIMBER HOUSE

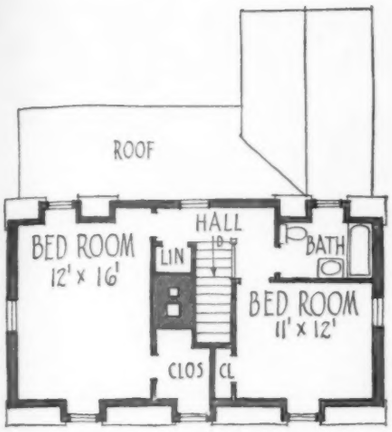
From Ouilly-le-Vicomte

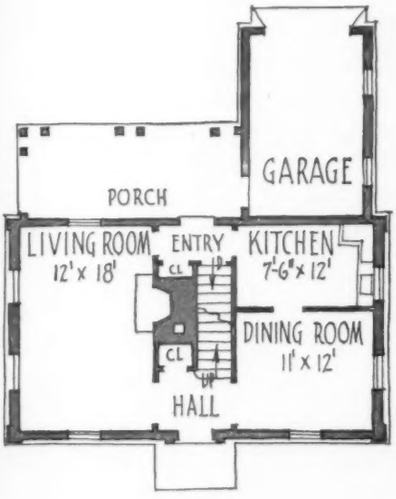
This attractive Normandy cottage designed for us by Jefferson M. Hamilton is modeled on an old farmhouse at Ouilly-le-Vicomte. Not only is it beautiful and unusual but it is most compactly planned, containing only 20,100 cubic feet which at 40 cents a cubic foot would make it cost $8,040 to build. This is a very reasonable figure for six rooms and a fully developed cellar

The floor plans demonstrate graphically how every bit of space has been utilized. The stairway between the first and second floors has been worked in under the sloping roof on one side and closets are built under the sloping roof over the porch on the other side. The stair hall affords convenient access from the front door to the second floor or from the kitchen to the front door or bedrooms. The three bedrooms are corner rooms and are well lighted. The bath is centrally located and is placed over the kitchen to simplify the plumbing requirements







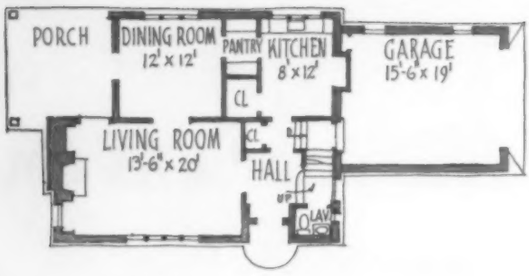


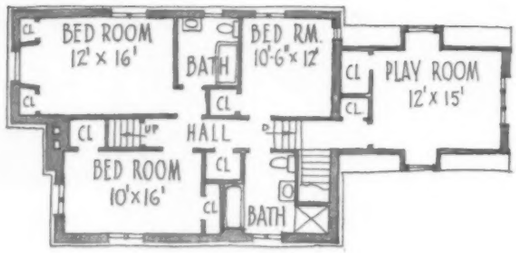
An American Favorite

Which costs about $6,000

As in the Late Colonial houses of New England the ends of this house are of brick while the front and rear walls are of clapboards. Richard S. McCaffery designed it and estimates the cubical contents at 17,650 cubic feet. At 35 cents a cubic foot, which is the probable cost of this type of construction in most parts of the country, the house would cost $6,177 to build

Mr. McCaffery secured an estimate on the cost of building this house from a reputable builder near New York somewhat over a year ago. At that time, and including landscaping, survey, permit, driveway and walks, electric fixtures, gas range, oil burner, and slate roof, the building price was estimated to be $8,780. But prices are lower now and prices in other parts of the country are always lower than near New York. The color scheme for this little house could be Colonial yellow, or the more usual white with green shutters and the brick ends may be either painted or not





An English Home

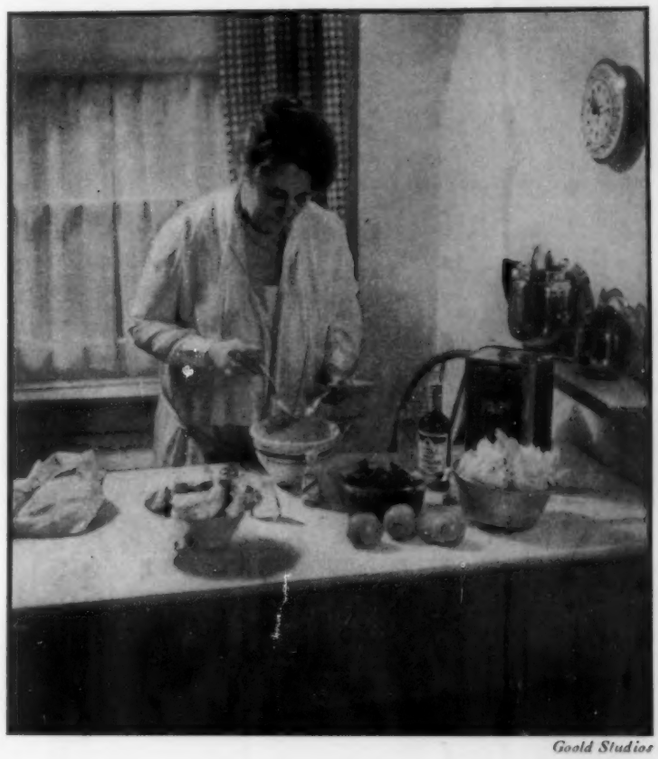
Costing less than $12,000

The interesting perspective assumed by the artist in picturing this beautiful English house designed by G. Dewey Swan makes it seem rather larger than it is. It contains only 29,500 cubic feet, including a basement under the main body of the house, and at 40 cents a cubic foot would cost $11,800 to build. Mr. Swan suggests that black slate, or a shingle tile of subdued colorings in dark reds and soft browns, be used for the roof. These tiles look like heavy shingles and are manufactured with a "weathered" surface that enhances the beauty of the house. The stucco walls are white and the timbers over the doors and windows are left to weather a silvery brown. The garage wing is at a slightly lower level and the playroom over the garage could be made into a room and bath

My Favorite Salads

Crisp, piquant, and pleasing to the palate

Mrs. Alice Foote MacDougall, whose photograph in her own kitchen is shown at the right, is justly celebrated throughout the country for the famous restaurants which she created in New York City, and the excellence of the food served in them. Recipes for her favorite salads should be of great practical interest to all who have to plan daily menus in the home.



Goold Studios

by ALICE FOOTE MacDOUGALL

ANDRÉ MAUROIS perhaps is correct when he says that the American salad is a "culinary heresy." He is speaking of our fruit salads, an almost unheard of thing in Europe—that land of soups and salads—and yet how we long for them when traveling abroad. To me no more soothing balm of any kind equals that of our cooling, delicious fruit salad on a hot day in summer. Still, he may be right. My first dream of salad came in terms of Italy and the Italian peasant women who used to dig up dandelions in Central Park early in the spring.

A thrilling moment it was for me when these gayly dressed Italian women first dawned on my view, a blessed relief from the dull hours of a long drive to my grandfather's country place, now in the heart of New York City, but then almost an outpost of civilization—Cosy Nook on Leggett's Point.

Now you must know that in those days the Italian immigrant still clung to her characteristic dress, the same that one sees to-day when motoring from Naples to Rome through the lovely campagna. Ample skirts of lovely green, copper, brown, or red, very full and gathered in to a waist of contrasting colors. Aprons of black, rarely white, for what is once white in Italy takes on, through the gentle process of time and, alas, dirt, tints far from white, gray, or even green. And crowning all the inevitable kerchief of still more brilliant hues tied tightly under the chin but flying loose and free in back.

Against a background of "sunny slope and beachen swell" these gay old ladies advanced, on one arm a basket and in the right hand a short sharp knife. Slowly they moved along singing or gabbling together as only the Italian can. Then for me the thrilling moment of excitement, as one or another would drop on bended knee, knife gleaming for a flashing moment in the air and a dandelion in all its pristine innocence falling limp and dead among its sisters in that sinister basket. The tragedy of it! This gay, golden life suddenly ended. Like all little girls, all inanimate things were vividly animate to me, and my heart bled at the sudden cruel death of the fairy dandelion.

Later, much later, in life when money was hard to find and my appetite ever present, the full meaning of the dandelion women came to me and utterly regardless of my childhood pity for the pretty dandelion, I feasted time and again on dandelion salad at an Italian restaurant in New York.

So, let me commend above all spring salads that of the dandelion. First we must consider the dressing—that French dressing so delicious to eat, so very difficult to get just right. Of course, the accepted formula is:

1 teaspoonful of salt	3 tablespoonfuls of oil
½ teaspoonful of pepper	1 tablespoonful of vinegar

But—the perfect dressing varies with the amount and size of the salad and is so carefully measured that there is never a drop too much in the salad bowl. Mix it and mix it until each leaf carries its full share. Cover each leaf until it glistens, but leave not a drop in the bowl. There is danger in too much just as there is in too little.

A word should be said here about the olive oil used in making French or, for that matter, any dressing. Be sure to use only the best French, Italian, or Spanish olive oil, according to your taste. Don't fool yourself that any native oil or substitute for oil will ever give the flavor you

want and remember that each imported oil varies in degree of richness and flavor with the country from which it comes. The Spanish oil is the heaviest and richest in flavor. The Italian comes next and the French—well, it is just a charming Parisienne, dainty and delectable.

And now for this most delightful of all spring salads—

SALAD OF DANDELIONS

Select full plants with as many buds as possible. Cut off the tough outside leaves, clean and crisp in cold water. Chop into small pieces two hard-boiled eggs. Rub your salad bowl with a clove of garlic. Mix the eggs and dandelions and blend with French dressing.

I should serve Edam cheese, French bread, and sweet butter with this salad and neither mortal man nor even the gods on Olympus could ask for anything more perfect.

If you happen to possess those very foreign but truly artistic salad plates, the crescent shaped, or demi-luna as the Italians say, here is a dainty salad to serve on them.

CUCUMBERS EN BATEAU

Select as many evenly sized cucumbers as you have guests. Slice off the tops and carefully remove the seeds and inside pulp. On each crescent-shaped plate lay a wreath of cress, placing the stems in the center and letting the leaves radiate out to the edge of the plate. Make a mixture of diced chicken breasts, tomatoes, slices of crisp bacon, and four tablespoonfuls of Russian dressing together with any pulp you may have removed from the cucumbers. Fill the cucumber boats with this mixture. Place a sprig of water cress standing in the middle of each "boat," surrounded by a narrow ring of pimento. Place a quarter of a lemon on each end, or preferably make a cup of a tiny lettuce leaf and fill with Russian dressing. This is a salad which is a delight to the eye as well as to the palate.

A salad piquantly seasoned to just the right degree and attractively served with some delectable accompaniment is one of the supreme tests of culinary art. Peasant pottery of gay color and interesting shape lends itself admirably to the salad course

Another delightful early spring salad is made of water cress. This is the recipe:

WATER CRESS SALAD

Line your salad bowl with the tender crisp leaves of lettuce. Fill the center with leaves of water cress carefully cleaned and crisp. To four young beets after they have been boiled add two hard-boiled eggs cut in small pieces. Mix with cress and French dressing. Place in a salad bowl just before serving.

Sometimes I use a dressing that is a little more elaborate than the French dressing. Perhaps it will interest you.

MY OWN DRESSING

3 tablespoonfuls of Italian olive oil
1 tablespoonful of tarragon vinegar
1 teaspoonful of mustard
1 teaspoonful of sugar
½ teaspoonful of salt
½ teaspoonful of pepper

Beat all the ingredients together lightly.

In case you do not know how to crisp lettuce and other green salads, this is the way: Fill a large bowl with cold water adding one tablespoonful of salt. Wash thoroughly whatever salad you intend to use, place in a bowl with a good sized piece of ice. Place in the icebox. Before serving drain carefully on a clean towel. Then place in a wire basket made for this purpose. Let it stand in the refrigerator, being very careful that all of the water drains off or your dressing will be ruined.

Combine a head of lettuce, a bunch of cress, two ripe tomatoes, cut in quarters and sprinkled with sliced onion. Place in a salad bowl and when ready to serve pour on the dressing, which has been again beaten lightly, and mix thoroughly. Serve either in the bowl or on individual plates. In any event serve with crackers treated as follows: Allow two Bremmer wafers at least for each person. Spread each wafer freely with butter and sprinkle with grated Parmesan cheese. Place in a hot oven until the cheese begins to brown. Serve hot with the salad. These toasted crackers are also delicious to serve with cocktails.

About this time we may be overtaken by that week of hot weather that always comes in the spring, a kind of *avant courier* of what July and August intend to do for us. Friends may be coming for lunch. You are exhausted, your maid is exhausted, and all you or your friends want is a kind of pick-me-up luncheon. Does this menu answer to that necessity?

Cold Jellied Bouillon
Shrimp in Tomato Jelly
Popovers Iced Coffee
Fruit Compote Frappé
Importés

If it does appeal to you let me tell you how to make the salad—

SHRIMP IN TOMATO JELLY

½ can of tomatoes, principally pulp
3 chives
1 bayleaf
1 slice of onion
½ teaspoonful of thyme
1 teaspoonful of salt
¼ teaspoonful of pepper
½ box of gelatine

Boil together the tomatoes, spices, and onion until the tomato is soft; then add the soaked gelatine, and stir until the gelatine is dissolved. Strain. Take individual cone-shaped moulds (or popover cups will do) and wet them. Pour a little jelly in the bottom of the mould. Lay in one shrimp curled to fit, pour in a little more jelly, and then a mixture of mayonnaise with shrimp and celery and chives cut in small pieces. Fill the mould and pour in more tomato jelly. Place in the ice box to stiffen. Make a nest of the inside leaves of lettuce which have been crisped. When luncheon is ready turn the shrimp jelly out on the lettuce leaves. Place (*Continued on page 361*)

Keppler

Never before have the shops displayed such an assortment of unusually lovely glassware. In the lower left-hand corner of the above photograph are comet and polka dot goblets and finger-bowls (Fostoria); beside these are orange, green, and black striped tumblers (Pitt Petri); just above and to the right grapefruit and cranberry juice glasses (Dunbar-Flint); above these a fruit cooler and "brandy inhalers" and goblets (R. H. Macy & Co.); a hors d'œuvre dish (Lewis & Conger); a French élagère (Mitteldorfer Straus); engraved rock crystal fingerbowl and plate (Sloan Bros.). In the upper right-hand corner is a three-tiered candlestick (A. H. Heisey & Co.); flower vase and a deer ornament (Corning Glass Works); four-piece cocktail set (Fostoria); fly cocktail glasses (Pitt Petri)

The New Glassware

Drawings by Lurelle Guild

The vital red and contrasting black and white of a Navaho rug offered the nucleus for this room of a growing boy whose interest centers in Indian warriors and ancient crafts. Homespun for curtains and bed, time-dulled Indian rugs for walls, primitive pottery and basketry, arrow heads and beadwork—even a scalp—all help to make this interesting room the pride of its owner

The Small Boy

comes into his own

by IVA LOU WILDEY

"WHAT about the boys' rooms?" I asked the New Home Owner, as we sat before the fire discussing plans and prices.

"My dear decorator," she replied, "there is nothing to be done in their rooms. I have some old curtains that will do nicely, and a couple of chairs that are too uncomfortable for downstairs. I might paint their beds—they are quite nicked—but still, what is the use? The boys will never notice nor care."

Frankly, I was astonished. For this little lady was not one to be overwhelmed by the sudden acquisition of a new home. All her life she had been accustomed to surroundings of refinement and good taste, and what was even more to the point, she had been a teacher of psychology and was even then a leader in Parent Teacher activities. I had every reason to believe she would desire the same atmosphere for her children and that she would understand child life and its reactions to color and comfort.

I remember how I longed to refurnish

The young shipbuilder who needed a background for his work selected curtains of heavy blue rep bound in red; dark oak furniture, some pieces of which were his own handiwork; and a woven rug in brown and blue. The India print on the bed in the foreground might well have come to port in the gay Spanish galleon which sails majestically across a stucco wall. Charts and maps play their part, too

those particular rooms. I had a piece of jute cloth of sturdy design, which was clamoring for such a place; some heavy wrought linens which would give the beds a finish anything but feminine; and a toile, with minute men upon its surface, waiting to be called.

I thought of blue-green beds, spreads of dull gold rep, and a rusty rug. But the New Home Owner shook her head, "there was too much that was necessary," she said. And I wondered what was more worth while than contented boys, eager to bring home their friends, to enjoy a real room where their belongings could be scattered or collected, as the case might be.

Were boys of less importance in the home than girls? I wondered. It seemed so. For there had never been a thought of putting discards into those dainty feminine quarters. Nothing in time or money had been spared to give the girl the benefit of color and design, an outlet for individual expression. Yet anything would do for the boy. I was not complaining because of the use of old things, provided they were good. But how well the grown-ups had relished discomfort was proved by the removal of the chairs, yet the child was expected to have no reaction. Was there any temptation to sit down and read, in a stiff chair without soft lights, or books within easy reach! The lamps were downstairs, so were the tempting books.

I was new in the decorating field then and this attitude was disturbing. But in the years which have followed it has occurred with such repetition that the surprise element is no longer present.

Indeed, when the mother of a four-year-old son recently suggested that I find "something interesting" for his room, I was momentarily barren of ideas. Had she requested a scheme for her living room, a dozen would have crowded my consciousness, for a decorator's days are filled with living rooms of every description. (*Continued on page 352*)

Other rooms and houses winning honorable mention will be published in subsequent issues.

An interesting example of the way modern architects can build a homey feeling into a new house, can make it seem to have been lived in for years, is afforded by the house which won first prize in the class of houses costing less than $10,000. Oscar Bryant Smith, architect, designed it for Mr. Frederick W. Willard, at Short Hills, New Jersey

Below is shown the residence of Mr. John M. Spence, in Baltimore, Maryland, which won first prize for a house costing less than $20,000 to build. Howard F. Baldwin was the architect. The large, free-standing chimney which is a decorative feature of this style of architecture has been skilfully handled by Mr. Baldwin

Prize Winning Homes

in our contest

On page 370 of the September 1931 issue THE AMERICAN HOME announced a prize contest for photographs of houses costing less than $10,000 and $20,000 to build and interiors costing less than $1,500 and $750 to furnish. Floor plans and further descriptions of the prize winning houses and interiors shown on these two pages are given on page 356

The first prize in the contest for an interior not to cost over $1500 was given to Mrs. Alta Mae Mattison, for the living room in her house at Lake Mahopac, New York. The picture at the right shows that the pine-panelled walls make a beautiful background for the quaint pieces of French Provincial and Early American furniture with which it is equipped (Pierre Dutel, decorator). The pleasant living room shown below won the prize for an interior which did not cost over $750. It was designed and furnished by its owners, Mr. and Mrs. Frank Pickel, of Hackettstown, N. J.

Painting

for proper protection

by MORGAN G. FARRELL

PAINT on the outside of a house serves a double purpose: it beautifies and it preserves. But to achieve these desirable ends one must have the right kind of paint, and it must be applied in the right way to the right kind of surface. This holds true either for new painting on raw wood or for the spring repainting job which is the particular subject of this article. It applies also to the rejuvenation with paint of stucco, brick, or other masonry.

The "right kind of paint" for most exterior surfaces to which paint is normally applied may mean either the best of white lead and linseed oil or the best of the ready-mixed paints. If the painting is to be done by a reliable painter, experienced in mixing ingredients "on the job," either can be specified by the owner with assurance of satisfactory results. But if the painting is left to inexperienced hands it is probably safer to specify the best grade of one of the well-known brands of ready-mixed paints. They are prepared mixed in quantities at the factory according to the makers' formulas, and are packed and labeled according to their contents and the purposes for which they are recommended.

Although every home owner can be his own house painter, certainly the most convenient way and one which especially recommends itself in this period of widely extended unemployment is to secure estimates and award a contract to a local painter to paint the house. If that is done, be sure to specify what is to be painted (all exterior woodwork, and leaders and gutters, flashing and roofing if desired). Also specify the make and numbers of the paint to be used, the number of coats, the method of application (brush or spray), preparation of surfaces (removing dirt and old paint), and cleaning up. As an aside: it is wise to look up your liability insurance—people fall off porches and slide down roofs.

ONE should know how to do it oneself even if the work is to be given out. Particularly is this true if unskilled laborers instead of accredited house painters are given employment. So here are some thoughts on brushing: The best brushes, of course, are those which hold their bristles and are uninjured by any solvent used to clean them. These may be kept in water overnight but must be thoroughly cleaned with turpentine and washed with soap and water at the end of the job as safe protection.

The technique of exterior painting differs from that employed for the interior. The paint should not be flowed on in a thick, smooth pool. It should be brushed on and in, most thoroughly, working the brush hard, back and forth, stippling over rough spots and keeping the coat as thin as possible. This is hard work and it may be necessary to thin down the finishing coats. Most manufacturers recommend this practice.

They say the proper way to get the paint ready to start work is: (a) Buy the best grades of white lead and linseed oil or the best ready-mixed paints, as your choice may be. (b) If ready-mixed paints are used shake the can quite thoroughly. (c) Pour off the loose liquid into another can. (d) Stir thoroughly the thick paint that is left. (e) Pour back the liquid gradually, stirring all the time. It cannot be stirred too long. It helps to pour the paint back and forth from one can to the other, though it is a bit tiring. Incidentally, it is a good idea to rub vaseline into the hands before starting to paint. It protects the skin against cracking and facilitates the removal of paint with turpentine and soap and water.

THE one-time theory of painting was that anything would do for the priming coat on raw wood. This is all wrong. The priming coat is most important. The wood is full of tiny cells (as many as a million to the square inch in soft woods) into which the oil of the priming coat penetrates. There it hardens, forming microscopic fingers, which hold the paint to the surface. Knots and sap pockets should be coated with white shellac before priming and all holes and cracks should be puttied up *after* priming. There is a great variation of quality even in such simple things as shellac and putty. Therefore, get the best that is obtainable.

If it is a re-paint job, it is necessary to use the utmost care in preparing the surface, so it will be clean and solid for the coat of new paint. First, it must be thoroughly dry. So, too, must the weather be. All dry, dusted, or flaked paint must be taken off with a wire brush. If the old paint is badly soiled with dirt, or soot, it must be washed with hot water and laundry soap. If accumulated paintings have taken the form of a leathery, alligatored skin, this must be burnt off with blow torches. This is slow and expensive but essential for a permanent job.

If the painting is done while the sun is still weak—before June—the results will be more satisfactory. But too much cold is just as bad as too much sun, for the paint will be thick and sluggish and it is safe to say that under 50° is too cold for house painting. And, of course, one does not paint on a misty, windy, or rainy day. It is better to wait for a clear, quiet day, when the air is free of dust and moisture.

In most cases the old painted surface is pretty dry, so the first coat of new paint should be thinned with one pint best raw linseed oil and one pint of turpentine to the gallon of paint. Then apply a second coat just as it comes from the makers' can. If the paint is too thick, thin it with linseed oil only, to retain the gloss. Turpentine kills the gloss. Each coat must be dry before the next is applied.

One of the most radical painting innovations of late years is the development of aluminum paint for both priming and finishing wood exteriors. In many respects, it is an excellent first coat for refinishing (*Continued on page 353*)

The American Home

Employment Plan

The last in a series of five articles giving timely suggestions for making your home more valuable and at the same time giving work to those who need it.

THE response of readers to THE AMERICAN HOME EMPLOYMENT PLAN has exceeded the most sanguine expectations of its sponsors. There is overwhelming evidence that its practical policy of "help yourself while helping others" has made a very definite contribution toward unemployment relief and national welfare.

With the advent of spring close at hand, there are still opportunities for every household to make improvements or to carry out maintenance work that will give employment indoors or out to those whose regular occupations may not resume their normal activity for another month or two.

At this time thoughts should turn toward four types of maintenance and improvement problems. First, there is the matter of repairing the ravages of winter and of putting the house in order, so to speak, for another year. Second, there are many things to do in changing over from the winter to the spring season, such as the removal of storm windows and the preparation of screens for the warmer weather. The third group includes the solution of problems that have to do with spring and summer comfort, remembering that it is in the spring and summer that fireplaces are most extensively used and that both the rainy season in the early spring and the hot weather that will soon follow each bring problems of their own. And fourth, there is the opportunity now to prepare the grounds and the garden and the garden tools for the busy outdoor season, to say nothing of the actual gardening activities of planting and transplanting that will follow a little later on and that do not belong within the scope of this employment plan. So to these four types of opportunities we devote the last twenty items in the check list around which THE AMERICAN HOME EMPLOYMENT PLAN is built.

BUT few of these items involve any great technical difficulties. If the explanations which follow are not adequate, please remember that your local carpenters, plumbers, general contractors, material supply houses, and other building trades groups stand ready and willing to help you to solve your particular problem by advice and counsel that will cost you nothing. And keep in mind, too, that unemployment relief committees in your locality have many men on their lists who still are in severe financial straits and who are quite competent to estimate and perform the work which is involved. No matter how small your expenditure, it will make a double contribution to national welfare, for it will not only represent an improvement to your home and property values, but it will give work to others, perhaps in factories or distribution centers if not actually to men in your neighborhood.

The worst of the winter is almost over. Economic conditions are showing substantial signs of improvement. Before the end of March in most sections of the country the volume of work available will greatly increase and milder weather will bring less keen suffering. The problem is to close this last gap by performing every possible item of work now that might otherwise be deferred until employment is less a matter of extreme necessity to many families. If for no other reason, undertake such work as you can this month to secure the advantage of the lower prices still prevailing for both materials and labor. The history of all past years, whether in normal times or during the years of depression, shows that in March comes the turning point in business activity, particularly in the building field.

Here are the last items which have not hitherto been discussed in the list of one hundred suggestions for home improvements.

7. *Repair or replace hardware; correct sagging doors or defective windows.* Examine the hardware on doors, windows, cabinets, and closets. If doors bind or do not latch properly, if windows are difficult to operate or have broken window cords or balances, or if the old hardware is showing signs of obsolescence or decrepitude, have a local carpenter make the necessary repairs and adjustments. Also visit your local hardware dealers and consider the installation of modern hardware, including many of the new and convenient devices such as door closers (invisible or exposed type), modern window operators and adjustors, and up-to-date locks and latches that give the utmost security.

16. *Repair porch railings, floors, steps, etc.* In a few short weeks open porches that have been abandoned during the winter will again come into use. Examine your porch steps and other exterior details for signs of decay or deterioration. Repair work of this kind can be effectively done at once. It would be advisable to continue the inspection of all exterior parts of the home, particularly cornices, gutters, wood trim, and siding, with a view of reconditioning any parts that have suffered during the winter.

19. *Build portable screen enclosure for open porch for summer use.* Possibly you have never had your open porch equipped with a screen enclosure, but more likely the enclosure you have used in past years needs reconstruction, improvement, or extension. This work can be done under cover during late February and early March at lower cost than by waiting until spring has advanced to the fly and mosquito time. Screen enclosures are made commercially by companies specializing in this type of work who should be asked to

submit estimates, or you can have them made to your order by a carpenter or by your local mill. Repair work can be handled in a similar manner—preferably by a carpenter.

20. *Prepare window and door screens for next season's use, including rewiring where necessary and repainting. Also consider installation of new screening of modern type.* All window and door screens should be put in order for the coming season's use. The frames should be inspected for weakness and new frames ordered to replace those that have passed their useful life. Screen cloth that is torn or rusted should be entirely replaced, preferably using the most durable materials available. The screens should be repainted, including the screen cloth unless the latter is of copper, bronze, aluminum, or other rustproof metal. This is work for a carpenter unless the screens are of patented construction, such as the modern metal frame screen, in which case the rewiring can often be accomplished more effectively by a factory repair man.

If your present type of screen is not up to date, consider having modern screens fitted to all of your windows. Among the possibilities are rolling screens which can be installed on the inside of the frame for either double hung or casement type windows, full-length metal or wood frame screens hung at the top for double hung windows, and flat metal screens or box screens which can be fitted to metal casement windows of every type. For estimates, consult screen manufacturers.

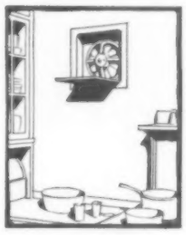
36. *Provide outside accessories such as window boxes, trellises, bird houses, etc., ready for use in the early spring.* Many of these accessories which add so much to the interest and appearance of the home can be purchased ready-made from millwork companies or your local mill. Their construction also offers excellent indoor work during these early spring days for an otherwise unemployed carpenter. They will cost less now than a few weeks hence and can be painted and prepared for use before other garden duties crowd your schedule.

37. *Erect new fences, gates, arbors, pergolas, and other outdoor garden structures.* As soon as the frost is out of the ground so that post holes can be dug, all types of outdoor garden structures may be erected before other gardening work becomes pressing. Consider the use of ready-made units, such as woven wood, sapling or split-rail fences, and standard arbors or pergolas manufactured by specialists in fencing, gates, and garden furniture. Or these accessories to the grounds may be made to order through a local mill or by a competent carpenter.

71. *Remove storm windows and winter vestibules in preparation for warmer weather (in early spring).* While occasional storms and cold spells may be experienced for several weeks in the northern sections of the country, there is something particularly exciting about getting the storm windows and doors put away at the first sign of mild weather. Before storing them, they should be put in good condition for use next year, repainting or reglazing the units if necessary.

72. *Early spring exterior painting of all items not repainted in the fall.* It is the habit of many families to have their houses painted in the spring, particularly outside painting. They usually defer this work until the season is well advanced and fair weather is the order of the day. This year consult your painters about such work at once. You will find many of them ready to start weeks before their normal busy season commences. You can probably save money by placing your order now. At the same time consider having any interior painting completed this month while prices and employment conditions are favorable to you.

76. *Install a ventilating fan in kitchen.* Electric ventilating fans that are built permanently into the wall are almost as easily installed as the portable units that are inserted in the window opening. The built-in types are made in standard forms for insertion in wood or masonry exterior walls with a minimum of labor and without requiring subsequent patching or repainting. This work is usually under the direction of an electrician who can cut in the necessary aperture and make the complete installation for very little cost. Several units have their own weather-protecting shutters that keep out inclement weather.



77. *Correct defective fireplaces.* Soon the heating plant will be shut down and your chief reliance for a little extra warmth will be on your fireplace. If the latter smokes or does not operate properly, it can always be reconstructed and put in good working order by a competent mason. Usually the trouble lies in the proportions of the opening or the construction of the fireplace throat and smoke chamber. The most effective method of correcting the latter is to have the mason install a modern metal unit which is scientifically designed to insure adequate draft. Consult a mason or specialist in fireplace construction and correction; also consult manufacturers of fireplace units.

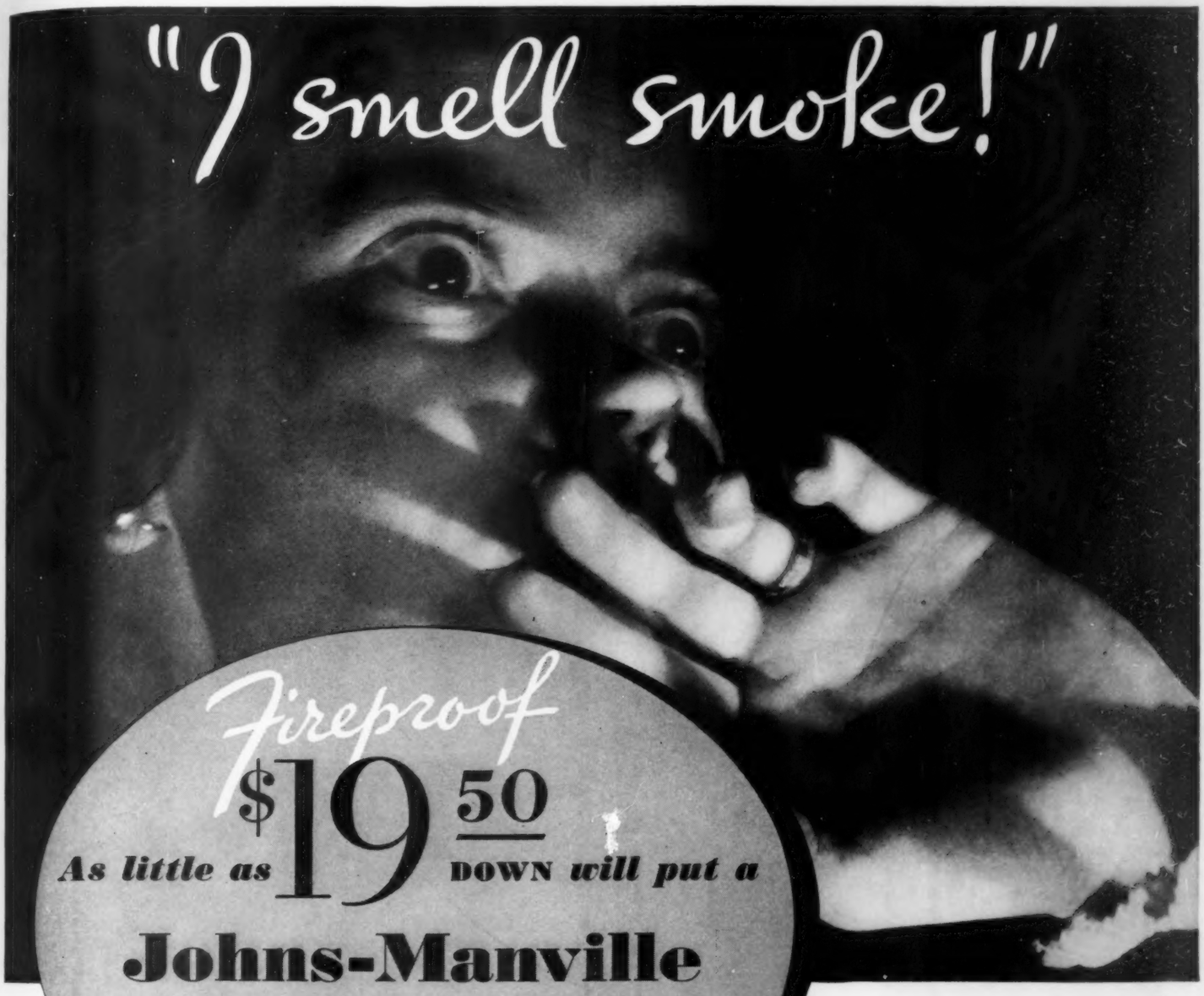
78. *Install hearth or mantel for gas or electric radiant heater in bedroom or other room lacking chimney connections.* Much of the charm and most of the comfort of a real open fireplace can be built into any room in the house by installing a modern gas or electric radiant heater, neither of which requires chimney connections. It is usually more satisfactory to create the appearance of a complete fireplace hearth with an appropriate mantel or "surround" in which the heating unit is set. The modern electric devices have motor-driven fans to throw the heat out into the room for maximum efficiency and quick response. Consult your electrician for electric units, your gas company or plumbing and heating supply house (or the manufacturers direct) for gas radiant heaters, and manufacturers of ready-made units or your local mill or carpenter and mason for the construction of a false fireplace hearth and mantel.

82. *Insulate roof or attic floor to reduce heat losses in winter and to make second story or attic bedrooms cooler in summer. Also consider insulating side walls of house for maximum comfort.* In the wintertime most of the heat that passes out through the exterior surfaces of the home is lost through the roof. Conversely, in the hot summer months the excessive heat of the sun enters the house through the roof and often makes the upper story bedrooms unbearably warm. To correct both of these defects, the ceilings of the upper story bedrooms or the underside of the roof can be insulated in any one of several ways:

(a)—Where attic is unused the floor boards can be lifted and a fibrous or dry powdered type of insulating material can be spread over the ceiling between the joists or blown into this space by means of mechanical devices. If the ceiling of the upper floor is not covered with boards, a type of flake insulation that is blown in with adhesive material may also be used in this manner.

(b)—Similar blown or fibrous insulations can be installed between the roof rafters if the latter are sheathed or covered with plaster or other material.

(c)—The inside of the attic may be lined with heavy insulating boards. Unlined attics (*Continued on page 356*)



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Why wait any longer to protect your home and your family against fire?

Today you can have a fireproof roof of Johns-Manville Asbestos Shingles . . . for as little as $19.50 down! The balance you pay out of income—twelve small monthly payments.

In addition to fire protection you buy *permanence. No Johns-Manville Asbestos Shingle has ever worn out!* Upkeep expense eliminated!

J-M Rigid Asbestos Shingles are made of asbestos fibres and Portland cement combined under pressure. They may be had in a wide variety of textures, styles, colors *and prices.* You will find the type which exactly fits your needs—whether you're re-roofing or building.

Still lower in cost are J-M Flexible Asphalt Shingles. Surfaced with finely crushed rock or slate, they are fire-retarding, durable.

The J-M dealer will also tell you about J-M Asbestos Wainscoting. It has the color and charm of ceramic tile of high quality—and only $9.75 down and monthly payments modernize that dingy bathroom or kitchen!

For further information on roofing and J-M Asbestos Wainscoting—just fill out and mail the coupon.

JOHNS-MANVILLE · 41st Street & Madison Avenue, New York, N.Y.
I would like to have your dealer inspect the condition of my roof —*free*. I would also be interested in learning more about J-M Asbestos Wainscoting. This puts me under no obligation.

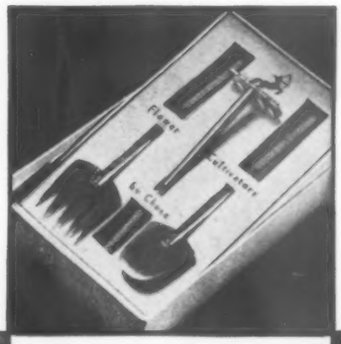
Name _____ City _____

Street _____ State _____ A.-H.-3

Johns-Manville Roofs for residence · office building · industrial plant · Permanence · Protection · Satisfaction

Devices for American Homes

Any of these articles can be ordered by sending a check or money order to the firms cited below. For any further information write Diana North



THE Early American" is the name of the new "Wear-Ever" drip coffee pot designed by Lurelle Guild, national authority on American antiques. Coffee is put in middle section; boiling water in upper part. Price for limited time only $1.95; west of Rockies $2.25. From local dealer or Aluminum Cooking Utensil Co., New Kensington, Penn.

FOR your indoor garden a set of bright brass tools comprising fork, rake, and spade will be found very useful. Though they measure but 6″ in length they will make an efficient aid for keeping your plants in good condition. Price 75¢ complete. Add 10¢ extra for postage. W. G. Lemmon & Co., Ltd., 820 Madison Avenue, N. Y. C.

THE lower section of "The Early American" drip coffee pot shown in the upper left-hand corner. After the coffee has dripped through, which takes but a few minutes, the upper section is removed and the lower container is used for serving

A NEW way of serving corn on the cob. Consists of service with an attractive embossed corn design, and screw holder which fits into corn. In nickel silver buffed $2.00; nickel silver, silver plate butler finish $2.50 each. Korn-on-Kob Service Co., Moline, Illinois

THE Mexican Flame ball plant changes to a brilliant flame color when water touches it. Yellow flowers in summer. 7″ high, 6″ diameter $4.00 postpaid; 8″ high, 7″ in diameter $5.00 postpaid. Max Schling Seedsmen, 618 Madison Ave. N. Y. C.

TORRIDAIRE hot pad. Put *cold* water in opening and shake until desired heat is obtained. Retains heat about 7 hrs. Rubberized case 7″ x 8½″ in blues, greens, or black and white. $1.00 postpaid; refills three for $1.00. Lord & Taylor, Fifth Ave. & 38th St., N. Y.

NOT a bicycle pump, but a force pump for use in basin, sink, or tub is shown above. An indispensable necessity for your kitchen or bathroom. Easy to use, as it is rarely necessary to pump more than four or five times. In brass $1.45 postpaid anywhere. Lewis & Conger, 78 West 45th St., N. Y. C.

NO LONGER is it necessary to mar your attractive house with an unsightly house number. The new one shown above is visible day and night as it is connected to wiring system. 13″ high, 2¼″ wide. In green finished mottled case with any numbers $3.65 postpaid, Lewis & Conger, 78 West 45th St., N. Y. C.

ARE *Domestic Hands* A BADGE OF MARRIAGE?

1932 ☾ MARCH ○ 1932
WINTRY WINDS
March winds are hard on skins, but neither raw weather nor hardest housework need mar the appearance of your hands if you protect them with Hinds.
This smooth and delightful lotion will keep your hands always soft and lovely—and so comfortable too.

A photographic representation of inferiority complex caused by Domestic Hands. Interpreted by Anton Bruehl

Her poor bewildered husband simply can't understand the change that has come over Helen since their marriage last June.

She used to love to go to parties and to give them. But now she never wants to go anywhere and she hates to have people come into their home.

When old friends drop in unexpectedly she is so queer and so self-conscious. It was actually embarrassing the other night when Tom brought Ted Graham home for dinner without warning. And after he had gone there was another of those awful weepy scenes.

The real trouble with Helen of course is a bad case of Domestic Hands.

Unaccustomed to housework before her marriage, she simply has not learned that it is easily possible to have lovely, soft white hands and still get along without a maid.

A Soothing Pure-as-Milk Lotion that Keeps Hands Young

You can easily avoid the embarrassment of Domestic Hands and the inferiority complex that goes with them. All you need do is smooth Hinds Honey and Almond Cream into them two or three times each day. Within a few days' time even hands pitifully roughened by neglect grow softer, whiter and more attractive. You see the improvement almost at once.

Don't Take Chances with Questionable Lotions

The delightful caressing texture of Hinds comes from the mildest and finest skin-softening emollients—a special secret of its half-century tested formula. Avoid imitations, many of which simulate Hinds cream-like texture by the addition of gummy thickening agents that do not benefit the skin. Don't take chances—insist upon the original Hinds Honey and Almond Cream.

Get Hinds from your druggist today. We'll gladly send a generous sample, free, if you will write the A. S. Hinds Co., Dept. B-28, Bloomfield, N. J.

© 1932, Lehn & Fink, Inc.

HINDS *honey and almond* CREAM

Does your face, too, tell of *Domestic Cares?*

TRY THESE NEW HINDS BEAUTY AIDS

Because days crowded with household cares so often leave signs of tiredness and neglect, Hinds decided to do for faces what they've always done for hands . . . make them smooth as velvet, lovely and youthful. Try this simple, amazingly inexpensive treatment:

HINDS CLEANSING CREAM—This cool, fragrant cream liquefies 2 to 7 times faster than ordinary creams, floating out dirt without stretching pores. 40c and 65c a jar.

HINDS TONING CLEANSER—This stimulating new cleanser dissolves pore residue, so pores shrink back to normal size. 65c a bottle.

HINDS TEXTURE CREAM—A *greaseless* softening cream to make the skin satin-smooth. 40c a jar.

If your druggist cannot supply you, write to A. S. Hinds Co., Dept. B-28, Bloomfield, N. J.

SCREENED . . . but its beauty remains unblemished

WINDOWS . . . the "eyes" that give a house life, beauty, stateliness! Into their design architects for centuries have poured their artistic talents. What a pity when the harmony of line and proportion is destroyed, or ten to twenty per cent of the light is shut out by unsightly, wide-framed, flat-type screens! It is so unnecessary . . . for today Rolscreens of Pella relegate such shortcomings into complete oblivion. They do more. Rolscreens bring you a whole category of other advantages which make you wonder how you ever managed without them.

Fitted into your windows, either inside or outside, Rolscreens are so unobtrusive you scarcely realize they're there. Inconspicuous guides at the sides; a narrow bottom-rail; an ingenious spring-roller, hidden in a compact housing; a clear-vision mesh . . . That's a Rolscreen of Pella!

Rolscreens roll up and down —like a window shade

A touch of the finger and, automatically, your Rolscreens roll up; a gentle pull and they're down . . . instantly available when you want them; instantly out of the way and out of sight when you don't.

Rolscreens make it easy to get at casement latches. They need not be taken out for access to flower boxes or for window washing. In fact, they need *never* be removed. They're permanent! . . . Require no storing; no messy dusting, painting, repairing and putting up each spring.

Rolscreens collect no heavy accumulations of dust or dirt—to soil delicate breeze-blown curtains. . . . They clean themselves each time they're rolled.

Rolscreens do not sag, bag, or rip. An accidental blow merely disengages the sliding lugs from the guides, and rolling the screen instantly replaces them.

Rolscreens are thoroughly insect-tight —being locked in on all sides. No gaping edges from shrinkage or bad fitting.

Rolscreens do not rust or break into holes. Made of special electro-plated "AluminA"—clear-vision wire-cloth, with reinforced selvedge, that will far outlive Rolscreens' TEN-YEAR GUARANTEE.

Preserve the carefully planned beauty of that home which you love. Banish those daily inconveniences and that twice-a-year drudgery which old-fashioned screens impose. Give yourself the economy of screens that will probably last for the remainder of your life. . . . Rolscreen your windows. It's easy—with any size or type of window; in full or half length. *Time payments,* if you desire.

But, be sure your Rolscreens are the genuine—*Pella-made.* Their fifteen patented features and seven years' successful history are assurances of satisfaction-giving to a degree no other rolling screens can offer. The coupon below brings you the complete story—without obligating you in the slightest.

Special information, specifications and services to architects and builders on installations in new dwellings, hospitals, hotels, office and apartment buildings.

ROLSCREENS

• OF PELLA •

ROLSCREEN COMPANY, 632 Main Street, Pella, Iowa

Please send illustrated booklet showing how Rolscreens can add beauty, convenience and utility to my home.

*Name*_____

*Street*_____ *City and State*_____

The small boy comes into his own

Continued from page 343

Her request, however, found its answer in a chintz of pleasing apricot background, upon which were depicted interesting forms and figures of travel—carts and cars, horses and aëroplanes—motion and color. One chair was slip covered to match the curtains; another painted jade green was given a cushion of henna-toned rep, bound in a color to match the paint, and harmonizing with the henna spread upon the old spool bed.

An aquarium built securely into the window to prevent accidents, netted over the top to keep out small flashing fingers, afforded hours of enjoyment and much that was of interest and value. The soft jade woodwork and deep cream walls, with the occasional picture of deep sea life provided a scheme that pleased the young man himself and in which he took both pride and interest. I have found boys, regardless of age, enthusiastic over the possibilities, especially when they themselves are allowed to do the actual work.

For one small individual who, incidentally, selected his own material a room was developed in café au lait, blue-green, and coral. The colors were the direct outgrowth of a gay chintz wall hanging whose neutral ground displayed fast moving ships, sea shell, coral, and sea weed. From the latter came the blue-green, to be combined with coral, for contrast and warmth. The café au lait gave a splendid suggestion for painting the chest of drawers and the bed. The blue-green chair with its coral cushion and colorful boat upon its back was not without charm, nor was the old chiffonier for that matter, when its drawers had been lined and outlined with the two contrasting colors and black to enhance them both. The lighting fixtures were painted dull black to simulate the effect of wrought iron. Parchment shades, with the maddest of mad pirates guarding his gold, were added to the side lights. An old map suddenly found itself interesting when lightened by a painted border of dull gold and a thin line of coral. Two much-loved and badly bruised pictures were put into the good graces of the room, by covering the nicked and tarnished surfaces with a coating of dull black paint. Bedspread and curtains of casement cloth, in the same rich tone as the chest, found their surfaces relieved by appliqué borders of coral-sailed ships, riding relentless blue-green waves with apparent ease and certain grace.

For another lad who wanted "anything that looked like cinnamon toast," a scheme of browns, haunting rusty browns, dull coppery ones, with high light of yellow gold, was built. And, though they had no reference to the culinary requirements, blue and green were added. It was as refreshing and pleasing as a walk in the October woods, when the sun sifts through the bronze leaves.

There was the boy who himself sought out the decorator—much to his mother's amazement and much more to his father's disapproval, as he feared his son was developing effeminate tendencies because the latter showed an interest in his own surroundings.

The boy had little to spend, although it was the result of long saving and denial. What he wanted most of all was a cabinet in which to display his mineral specimens. By taking the side cabinet from an old dresser in his room, putting legs on it, shelves and glass in it, he had a piece which filled his needs. The remaining drawers and the cabinet were painted a sturdy blue, with a trim of gold and green. The mirror from this same dresser was painted green and hung over the drawers. An old kitchen table properly cut down equipped with letter rack and an extra drawer, and dressed in a coat of green to match the bed, completed the made-over belongings of the room. His mother coöperated to the extent of putting a conventional border in blue and gold yarn upon the curtains and spread of beige homespun.

Since the room boasted nothing which could not and would not be practical, the boy's father contributed an excellent floor lamp of wrought iron to be placed beside the home-made bookrack, and an interesting desk lamp of dull brass which did not fail to cast its mellow beam upon the near-by cabinet.

Then there was the young ship builder in need of a background for his work. He found a desirable one in curtains of heavy blue rep, bound in red, and his ships took to the wind upon gay painted window ledges, with the pleasing blue back of them, suggestive of either sea or sky. He made his own furniture and stained it dark oak. The woven rug of brown and blue did not disturb the room, but bound itself to the interesting bit of hand-blocked tappa bark over the brown desk. The copper bowl upon the table and the India print in red and blue upon the bed might well have come to port in the gay Spanish galleon which sailed majestically across a stucco wall.

The vital red and strong contrasting black and white of a Navajo rug offered the necessary nucleus for the room of another growing boy. His greatest interest in life centered in Indian warriors and ancient crafts. Grayed walls toned into woodwork of a deeper shade. Black and red lines defined the baseboards and outlined the wall panels, giving a distinctive border to the time-dulled Indian rugs which hung in each of the four panels.

From the standpoint of texture and color, homespun offered the best solution for curtains and bed, both bordered in bands of black and red sateen, the latter boasting the added distinction of an ancient Indian symbol as a center motif.

Furniture was of grayed oak; Indian baskets were given prominent places in the room and on a low table with the "best authorities" of Indian lore, were two dull black pots, filled with a variety of desert cactus. Those lamps which were not of wrought iron were made from pottery, water jugs, to be exact, of dull red with black borders, and objects of much usefulness before they became the possession of their present owner.

Arrow heads, bead and silver work —even a scalp! had to have adequate display space. For this a carpenter came to the rescue, and took the library table in hand. By covering the top with gray felt, and building

The small boy comes into his own

a wooden border three inches deep around the outer edge, there was depth enough for the display of all the smaller objects. A glass top, properly fitted hinged and equipped with locks, made of the table an enviable case and proved an object of interest to all visitors. Indeed the popularity of the room eventually caused the youthful occupant to tack up a card which read as follows:

"To Whom It May Concern:
This room open to visitors from 2–5
Saturdays only
No small children allowed"

All of which brings us to the original consideration of the problem. How much longer must we wait for mothers to recognize the signs of interest and to admit that a boy's likes and dislikes, his vocational tendencies, and certainly his taste in after years may have as their beginning, attractive and interesting surroundings of early years. We want our men to be in sympathy with the beautiful objects that please us and yet during the formative years we deny them the chance to learn what is really beautiful.

We give our girls the opportunity for self expression, for frills and furbelows, but let the boy so much as express a desire for color and we seize upon the idea of his effeminacy and discourage him.

If he fails to speak of it himself or to express any desire for a change in his room we assume that he neither desires nor cares for such things. But try him out sometime.

Painting for proper protection

Continued from page 346

over old paint. The pigment of the best kind is pure aluminum powder, the grains of which are tiny, flat leaves which interlace and lie on the surface like a continuous sheet of thin metal. Two pounds of this powder should be mixed as required with a liquid or vehicle as supplied by one of the reputable paint manufacturers.

The liquid is a highly elastic varnish, made up of heat-treated drying oils, with or without one or the other of the varnish gums. The omission of the gum gives a softer film. The writer's preference is for the gum-bearing vehicle, since it has all the additional protective powers of an equal grade of varnish.

As a primer, or first coat, aluminum paint has enough roughness to give a key to any kind of good paint laid over it. A great advantage of this paint is that it flows very easily, requiring much less effort to spread it and a thin coat of it gives full coverage over a base of any color, even black. It can also be sprayed readily.

One sees all kinds of weird recommendations for paint to cover brick, concrete, or stucco from whitewash up. Since the material to be painted is porous, it seems obvious enough that a film coating, while practicable, is not usually the best. With roughcast stucco, for instance, it may destroy the grain and character of the surface. There is another class of masonry paints called impregnations, because they are flowed on the surface in saturating quantities and soak in before they take a set.

One such material waterproofs the stucco or brick, freshens up its color, and prevents the formation of efflorescence, the white stains often seen on masonry walls. It is colorless or tinted in a variety of pastel shades. The base of the material is mineral gum and wax with a vehicle which is easily brushed on or sprayed, penetrating deeply in either case.

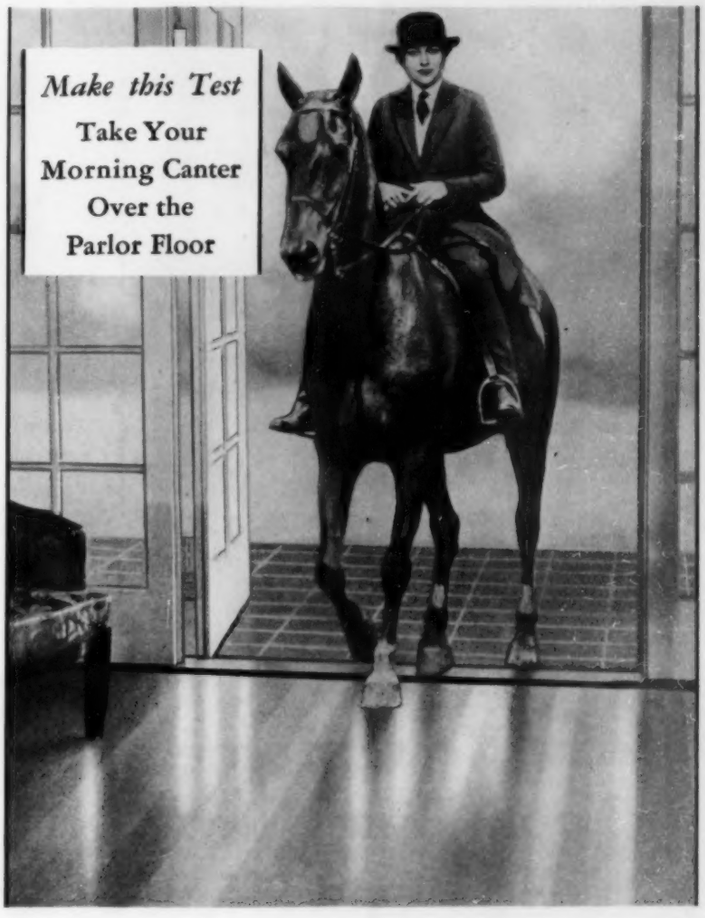
The reason so little is heard about spraying, is that the painters' unions prohibit the use of sprays. In fact, spraying is an efficient and cheap way to apply paint to large unbroken surfaces. There are contractors who have spray outfits on trucks and undertake work in which that method is used. Small hand sprays, operated by electric motors and carrying a quart or two of paint are also to be had. They are excellent for general maintenance work.

Now we come to the cost of repainting the outside of the house. If bids are taken, they will most likely range from $200 for the smallest kind of a house to about $1,000, for a two-coat job all over the exterior walls of a nine or ten room house.

It is possible to estimate roughly how much it will cost from this data:

Most good exterior paints will place two coats on 300 to 375 square feet of wall, and one coat on about 600 square feet, per gallon of paint, at $3.00 to $4.50. The labor cost varies, naturally, according to what you pay a painter a day and on how much of the work you do yourself. It also depends on the number of sash, ornateness of the building, porches, cornices, number of blinds, scaffolding needed, and so on. A reasonable day's work for a man would be about 400 square feet of one-coat work on the entire side of a house, including everything—although, of course, this is merely a rough approximation. It does not sound like much, 20 feet by 20 feet, but when one considers the moving of ladders and scaffolds, cleaning off old paint, painting blinds and sash, our approximation is probably not far wrong.

Painters get $12.00 a day on a Union job in 1932 in the vicinity of New York. At that rate the labor accounts for 3 cents a square foot per coat; 6 cents for two coats. (As a matter of fact, some painters near New York are working for $8.00 a day and that would make the cost 2 cents a square foot.) The paint costs about 1 cent a square foot for two coats, so the job will average around 7 cents a square foot for a two-coat job. To estimate the approximate cost, consider the walls as solid and find their area. Thus a house 30 feet by 40 feet, 30 feet high, has a wall area of 30 x 2 plus 40 x 2 multiplied by 30, equalling 4,200 square feet. At 7 cents a foot, it would cost about $294.00 to paint it, buying one's own paint and paying for labor at the full Union rate. If the work is done by contract, it may cost more, but of course the owner has the benefit of dealing with a responsible and experienced man whose careful supervision of the job may mean much in the long run.



Discovered! A Wax that Resists the Hardest Wear —*cuts work in half!*

NOW, after years of research the way has been discovered to blend and emulsify a super-fine wax compound that will go on the floor more easily—actually cuts work in half—and give the floor a beautiful, lustrous surface that neither pounding feet nor scraping chairs can mar. It is called the Koric Process.

Test this new wax compound on the busiest floor in your home and we promise that you'll never use another wax.

First of all you'll discover that it is easier to handle, almost as easy to put on a floor as sweeping. It adorns the room with new beauty.

Then, with the passing of time your admiration will increase. You'll note that floors don't require so much dusting and sweeping and the hard wax resists wear much longer than you've ever expected.

Now—with less work, keep your floors looking like new—whether they are varnished, shellacked, painted, stained or covered with linoleum. Bring out the beauty of the natural woods in your furniture. Use this new wax on floors and furniture.

Remember: There's just one—only one—wax prepared by the secret Koric Process and that is OLD ENGLISH. There is no substitute, so demand it by name! Sold by all dealers. Made by The A. S. Boyle Co., Cincinnati, Ohio.

Old English Wax

PASTE and LIQUID

Residence at Topeka, Kansas: Cuthbert & Suehrk, Architects. Walls and chimney finished with Cabot's DOUBLE-WHITE Collopakes. Winner of 1st Prize in competition of Kansas Chapter, A.I.A.

Make Your Home Look Like New Now and Next Year

THE whiter brilliancy of Cabot's DOUBLE-WHITE will make your home stand out from all others and look like new this year and for years to come. DOUBLE-WHITE stays clean and WHITE. Made on a new colloidal principle, fewer coats of it go further. Because of this, and because you have to re-paint less often, DOUBLE-WHITE saves money. Finish your trim with Cabot's Gloss Collopakes in unfading greens or other colors. Other Collopakes are Interior Flats, Enamel, and Semi-Flats. Ask your painter to use Cabot's DOUBLE-WHITE and Cabot's Collopakes. Send the coupon below for more information.

Cabot's DOUBLE-WHITE Collopakes

Made by the makers of Cabot's Heat-Insulating "Quilt"

Samuel Cabot Inc.

MANUFACTURING CHEMISTS
141 Milk Street
BOSTON, MASSACHUSETTS

Please send me Color Card and full description of Cabot's DOUBLE-WHITE and Collopakes. I am interested in ( ) Outside painting, ( ) Inside painting (check which)

Name .....

Address ..... A H 3-32

HELPFUL BOOKLETS

ARE YOU faced with some problem in constructing, remodeling, furnishing, or equipping your home? There are many helpful ideas and suggestions contained in the literature of reputable manufacturers.

Read the advertisements in this issue carefully and request literature direct from the advertiser wherever possible. Then, if you do not find what you are looking for, scan this list.

The American Home acts as a clearing house between reader and manufacturer. You can order the booklets you wish on the coupon at the bottom of page 355. We will forward your name and address to the manufacturers involved, and they will send their literature direct to you.

—HEARTHSTONE EDITOR.

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THE DOHERTY-BREHM HUMIDIFIER
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Cincinnati Victor Co. 704
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Insulite Co. 284
HOME INSULATION
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Floor Coverings and care of

BEAUTIFUL FLOORS (WAX)
A. S. Boyle Co. 50
THE SECRET OF BEAUTIFUL FLOORS
Floorola Corporation 657
REDUCING THE CARE OF FLOORS & FURNITURE
S. C. Johnson & Son (wax & machine) 54
FOR THAT NEW HOME OF YOURS
Armstrong Cork Co. 83
COLOR AND CHARM IN HOME INTERIORS
Congoleum-Nairn Inc. 706
FACTS YOU SHOULD KNOW ABOUT THE CARE OF RUGS & CARPETS
Clinton Carpet Co. 156
INSIDE FACTS ABOUT OUR WHITTALL RUGS AND CARPETS
M. J. Whittall Associates 178
GIVE YOUR FLOORS A FRESH START IN LIFE. (DOUBLE X FLOOR CLEANER)—(SAVABRUSH RESTORES OLD PAINT BRUSHES)
Schalk Chemical Co. 730

Furniture

THE FRIENDLY CHARM OF COLONIAL FURNITURE
Conant-Ball Company 608
NEW ARTISTRY IN RADIATOR CONCEALMENTS
Tuttle & Bailey 227

House Furnishings, Miscellaneous

THE GLASS OF FASHION (TABLE DECORATIONS)
Fostoria Glass Co. 133
HOW FOSTORIA GLASSWARE IS MADE
Fostoria Glass Co. 731
NORTH STAR BLANKET AND WAMSUTTA SHEET CATALOGUE
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TIDY CLOTHES CLOSETS
Knape & Vogt Mfg. Co. 655
CLOCKS IN THE MODERN HOME
The Clock Mfrs. Ass'n. of America 575

Kitchen and Laundry Equipment

THE DAWN OF A NEW DAY
The Walker Dishwasher Co. 454
ELECTRIC REFRIGERATION
Frigidaire Corp. 41
EBCO KITCHEN SINK
Ebinger Sanitary Mfg. Co. 638
THE GENERAL ELECTRIC REFRIGERATOR SIMPLIFIED BUDGET BOOK
General Electric Co. 665
DELCO GAS—MODERN COOKING & HEATING SERVICE FOR THOSE BEYOND THE CITY GAS MAINS
Delco Light Co. 686

Wall Paper and Wall Coverings

THE MODERN TREND IN WALL COVERINGS
Columbus Coated Fabrics Corp. 605
HOW TO MODERNIZE YOUR HOUSE WITH WALL-PAPER
Wallpaper Guild of America 81
THE IMPORTANT POINTS OF INTERIOR DECORATION
Columbus Coated Fabrics Corp. 661
WALL COVERINGS (SANITAS)
Standard Textile Prod. Co. 78

Gardens and Grounds

Garden Furniture, Fences & Decorations

CONCRETE IMPROVEMENTS AROUND THE HOUSE
Portland Cement Ass'n. 497
PRESERVE THE CHARM OF YOUR HOME
Stewart Iron Works Co. 371
THE NEW LINCRAFT BOOK OF FENCES & FURNITURE
New Jersey Fence Co. 700
A MASTER CRAFTSMAN SUGGESTS WAYS TO ENRICH HOME LIFE
Cyclone Fence Co. 418

Gardens

WHEN YOUR TREES NEED THE TREE SURGEON
Davey Tree Expert Co., Inc. 191
HOW TO GROW ROSES
Bobbink & Atkins 676
INSECT PESTS, INDOORS & OUT
Antrol Laboratories, Inc. 336
GARDENING SUCCESS
Swift & Company 577
THE SEEDING AND CARE OF LAWNS
O. M. Scott & Sons Co. 537
HOW TO PLANT THE HOME GROUNDS
National Home Planting Bureau 632
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American Landscape School 633
PEAT MOSS—OUTLINE OF ITS USES
Atkins & Durbrow, Inc. 698
STAR GUIDE TO GOOD ROSES
Conard-Pyle Co. 723
HOW TO KILL ANTS & PLANT INSECTS
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LAWN MAKING EFFICIENCY
Modern Machine Works 614
GOLF GREEN BEAUTY FOR YOUR LAWN
Cooper Mfg. Co. 613
LAWNS BEAUTIFUL
Jacobsen Mfg. Co. 636

Miscellaneous

TWO GOOD CLEANERS
Hygienic Products Co. 671
SIMPLE RULES FOR MOUTH HYGIENE
Johnson & Johnson 715

For my information only, will you please state briefly, the plans you have in mind which lead to your request for booklets.

Be sure that you have first looked through the advertising pages and requested booklets direct from the advertiser wherever possible.

—HEARTHSTONE EDITOR

HEARTHSTONE EDITOR, THE AMERICAN HOME, GARDEN CITY, N. Y.

1. I am planning to.....

.....

2. Please send (at no expense to me) the following booklets.
(Insert numbers from list)

.....

Name.....

P. O. Address.....

City.....*State*.....MAR. 32

..with this *proved*, low cost method

YOU who are building a new home . . . heed this warning! This year—above all years—watch out for half truths! Insist on value . . . especially in house insulation.

Go to any reliable lumber dealer . . . get the facts that prove you can now build these important factors into your home:

(a) 2 *times* the resistance to winter cold that even the common "insulations" can give
(b) 2 *times* as great a health factor
(c) 2 *full* times the fuel saving

In the Balsam-Wool method—backed up by nine years of nation-wide usage, approved by building authorities—you add this *double* value feature to your home.

Balsam-Wool is *far more* than just common "insulation". It is *true* insulation applied by the double-air-space method. The little it costs is *paid back to you* in fuel savings *far more* quickly. Ask for proof!

It pays back 25% on investment, first year!

Because his home is completely insulated with Balsam-Wool, Dr. H. L. New, Jacksonville, Ill., estimates that he is saving 25% on fuel bills every winter, and making his gas heating plant the most economical in the city

Balsam-Wool, in thick, blanket-like strips, tucks in between the framing members—seals every crack and crevice as only a flexible insulation can. Fits snug—keeps costly furnace heat in—summer heat out.

Go to your retail lumber dealer—today. Find out for yourself how easily you can give your present or prospective home 2 times the value in *comfort, fuel savings, health.* Or send the coupon. Full details will be mailed.

WOOD CONVERSION COMPANY
Cloquet, Minnesota

Pays for itself faster

NOW—MAIL THIS COUPON

Wood Conversion Company,
Dept. G-7, Cloquet, Minn.

Please send me facts and figures—without any obligation on my part—on how I can give my home 2 times the value in comfort, fuel savings, health.
☐ Proposed New Home ☐ Present Home

Name.....

Address.....

It tucks in

Balsam-Wool Blanket

THICK... FLEXIBLE INSULATION... EFFICIENT

NEW INTERIORS *for* OLD!

ARKANSAS SOFT PINE TRADE MARK REGISTERED
Symbol of America's Finest Soft Textured Wood

YOU can preserve . . . at amazingly low cost . . . all the priceless associations of the home you love, and still bring that home in harmony with the new decorative fashion, by doing over your rooms with beautiful walls of Satin-Like ARKANSAS SOFT PINE.

Interior walls finished in this splendid wood have no equal in beauty . . . in warmth to the eye and spirit . . . in choice of finishes . . . in freedom from disfiguring cracks . . . or in dependable, fuel-saving insulation against dampness and cold.

With an interior wall of Arkansas Soft Pine, you may have the "homey", friendly informality illustrated above . . . or the dignified atmosphere which goes with paneling of conventional design.

Beautiful in its soft mellow tone and natural lustre . . . of the finest texture and pleasing figure . . . suited to every modern finish in stain or natural effects . . . scientifically seasoned and certified by trade and grade marks . . . ARKANSAS SOFT PINE offers you this new interior beauty for *your* home at a price in keeping with today's adjusted values.

Write today for your free copy of "New Interiors for Old," and see for yourself the attractive designs you may choose from . . . and at what small cost. This is, indeed, the price opportunity of a generation . . . mail your request now!

ARKANSAS SOFT PINE BUREAU

345 Boyle Building
Little Rock, Arkansas

Arkansas Soft Pine is sold by lumber and millwork dealers east of the Rockies

Prize winning homes

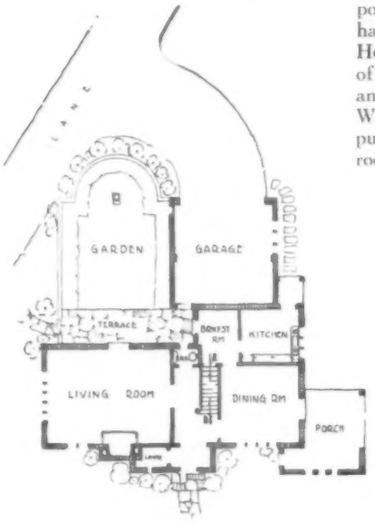
Continued from page 345

Below are shown the floor plans for Mr. Spence's house which won first prize for houses costing less than $20,000 to build. Reference to page 344 will show that this house is of typical Tudor design. The chimney, which was always made one of the most important features of Tudor houses, has been handled in the same bold way that characterizes this style. Mr. Spence's house was completed last fall at a total cost, exclusive of lot, of less than $18,000. It is located at 214 Upnor Road in Baltimore, Maryland.

The floor plans of Mr. Willard's house, below at the right, also show the informal arrangement common to English houses. Mr. Willard writes us that he has "long had a theory that a small, inexpensive house need not necessarily be commonplace." THE AMERICAN HOME so firmly believes in this same theory that we are pleased to demonstrate how well Mr. Willard's architect justified his belief. The house was built two years ago for approximately $9,000 exclusive of land. It is on Wellington Avenue, Short Hills, New Jersey.

Mrs. Mattison, whose living room at Lake Mahopac won first prize for rooms costing less than $1,500 to furnish, writes us that the color scheme of this room is composed of dull plum and Chinese yellow, two colors which predominate in the quaint old tiles used around the fireplace.

We are pleased to record that after the prize was awarded to Mrs. Pickel, whose living room cost less than $750 to furnish, she wrote us that she got many of her ideas "for its attractive points, such as cupboards, paneling, hardware, etc., from your AMERICAN HOME magazine." The furnishings of the room are in tones of mulberry and all the furniture is mahogany. We regret that we have not space to publish other pictures of Mrs. Pickel's room or describe it more fully.



Mr. Spence's house

Mr. Willard's house

The American Home Employment Plan

Continued from page 348

may also be insulated with flexible or blanket type insulating materials which are nailed to or between the rafters, or with the adhesive flake type material that is blown onto the roof and wall surfaces by air pressure.

(d)—Ceilings of the upper story rooms may be lined with fibrous insulating boards over which plaster or plastic paint is applied as a decorative finish.

Also consider having the side walls of the house insulated for a further improvement in both summer and winter comfort. This can be done with minimum disturbance by using the air-blown types of insulating materials which are forced into the dead-air spaces in the walls by special machinery. Consult manufacturers of various types of insulating materials regarding the solution of your problem.

83. Line unfinished attic space with insulating boards or plaster to create extra room or playroom. In addition to the advantage of reducing winter heat losses and excessive summer heat by lining the attic space with suitable insulation, there is the possibility of converting this space into a playroom or extra bedroom by finishing the underside of the rafters. Most of the rigid insulating boards are suitable for this purpose and may be (*Continued on page 360*)

The American Home Employment Plan

CHECK LIST

Reprints of this check list in page form may be secured at cost from THE AMERICAN HOME, Garden City, N. Y. Single Copies, 2 cents for return postage; 10 copies, 16 cents; 100 copies, $1.50; 1,000 copies, $14.50; 5,000 copies, $33.50; 10,000 copies, $53.00.

Read this list through for improvements that fit your home; then consult your local unemployment committee for men competent to submit estimates and perform the work. This is the final article in this series, twenty items having been discussed in detail in each of the four preceding issues. The letters after the various items in the list below indicate the month in which these items were discussed.

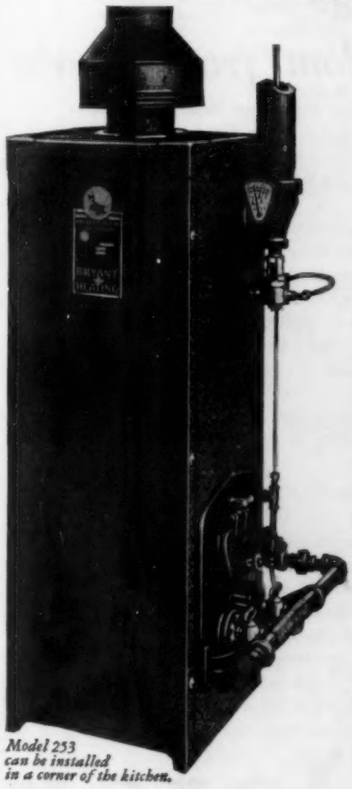
1. Develop basement playroom. D.
2. Install cedar lining in one or more existing closets. D.
3. Repair or replace gutters, leaders, or flashings. N.
4. Install dormer window or skylight to make attic space useful. N.
5. Repair existing roof; restain or apply preservative to wood shingles; repaint canvas roofs; stop leaks. N.
6. Reroof with wood, asphalt, asbestos or metal shingles, slate, clay tile, or metal. N.
7. Repair or replace hardware; correct sagging doors or defective windows.
8. Install a package receiver. F.
9. Convert coal-fired boiler or furnace to burn low-cost pea coal. J.
10. Apply asbestos or other heat insulating covering on pipes and boiler to reduce waste of fuel. F.
11. Reconstruct and straighten warped chimneys, add chimney pots, repair joints to improve draft. N.
12. Construct new outside chimney for new fireplaces. N.
13. Clean chimney flues; clean out ash pits, repair flue connection; reset furnace. N.
14. Install an incinerator. F.
15. Modernize exterior of house by applying shingles, brick facing, stucco, etc., over present exterior. N.
16. Repair porch railings, floors, steps, etc.
17. Add new porch or enclose existing porch with glass to make new sunroom. N.
18. Construct new removable winter vestibules for exposed doors. N.
19. Build portable screen enclosure for open porch for summer use.
20. Prepare window and door screens for next season's use, including rewiring and repainting. Also consider installation of new screening of modern type.
21. Install full-length mirrors on bedroom doors. D.
22. Install modern closet fittings, such as shoe racks, clothes hangers, linen shelves, storage drawers, etc. D.
23. Install booster fan on warm air pipe leading to underheated room. J.
24. Correct the heating of a cold room. J.
25. Repaint exterior of house in fall while weather permits. N.
26. Modernize floor plan of house by combining two rooms, changing or removing partitions, etc. J.
27. Convert large closet into an extra toilet or shower room. D.
28. Provide extra bedroom by subdividing large room, by using waste space in attic, or by addition. J.
29. Install wash basin in bedroom. D.
30. Install door bed in sewing room, library, or other extra room (having a closet) to make it a convertible bedroom for occasional guests. J.
31. Enlarge existing garage or build new garage. N.
32. Remove dead wood from trees and shrubs and have tree surgeon repair decayed parts of important trees. F.
33. Reconstruct dry-wells; carry drainage from leaders further from foundation; or apply waterproof membrane around exterior of basement walls before ground freezes (to forestall flooded cellars in spring where conditions indicate need). N.
34. Modernize existing bathroom—new wall treatments, flooring, fixtures, medicine cabinet, etc. D.
35. Build new closets. J.
36. Provide outside accessories such as window boxes, trellises, bird houses, etc., ready for use in spring.
37. Erect new fences, gates, arbors, pergolas and other garden structures.
38. Construct concrete, stone or brick walks, terrace, or steps. N.
39. Conceal all radio wiring, including aerial and ground wires. D.
40. Install new concealed radio wiring to permit use of extension speakers in bedrooms, dining room, or attic or basement recreation room. (Note: The average standard commercial receiver will operate from two to ten reproducers, permitting use of radio in any part of the house without moving the receiver). D.
41. Install remote control for radio receiver, built-in speakers, etc. D.
42. Modernize the kitchen arrangement for more efficient work. J.
43. Build breakfast nook in unused part of kitchen or pantry, or build new breakfast porch. J.
44. Install new kitchen or pantry cupboards and closets or modernize storage space. J.
45. Install oil burner, automatic stoker (coal or coke), or gas burner in heating plant. D.
46. Relocate or replace radiators. J.
47. Install movable disappearing stairway for space economy. J.
48. Convert warm air heating plant to modern forced circulation system with humidification. N.
49. Convert one-pipe steam heating system to vapor-vacuum system for more uniform heating and fuel economy. N.
50. Improve operation and efficiency of two-pipe steam, vapor, or hot-water system. N.
51. Install high-efficiency boiler, furnace, or air conditioning heater. N.
52. Replace common glass with ultra-violet ray (health) glass in nursery, sunporch, or all windows. D.
53. Install modern thermostat. D.
54. Install air-moistening (humidifying) equipment to create more healthful conditions (now possible with any type of heating system). D.
55. Weatherstrip doors and windows. N.
56. New storm sash or double windows for exposed rooms. N.
57. Install fuel lift from basement wood pile to near fireplace in living or dining room. D.

(*Continued on page 359*)

no home NOW *too modest for* GAS *heating*

TODAY, in order to deserve the adjective "modern," a house must enjoy automatic heating, preferably with gas, the cleanest and most accurately controllable of all fuels.

The new, compact and highly efficient Bryant Boiler Model 253—smaller than a 4-drawer office filing cabinet—delivers all of the joys and comforts of automatic gas heat at a cost that any house-owner can easily afford.



Model 253 can be installed in a corner of the kitchen.

In first cost and in operating cost it is fitted to the modest house and the modest purse. Entire neighborhoods of two hundred up to five hundred homes are being equipped with Bryant Model 253 Boilers. Scores of old houses are being modernized and increased in value by replacing old-fashioned heating plants with this clean, fuel-saving, space-saving equipment. Many homes are finding surprising savings compared with previous appliances.

Bryant Model 253 is the complete answer to the small-house heating problem. Full details on request. The Bryant Heater & Manufacturing Co. 17815 St. Clair Ave., Cleveland, Ohio.

BRYANT *Automatic* GAS HEATING

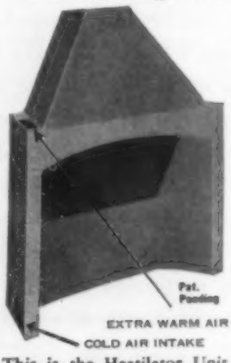
Lets your pup be your furnace man

Choose Your Own Fireplace *Design*

Get *Circulated Heat* and *Guaranteed Freedom from Smoke*

AT last—a fireplace that actually circulates heat throughout the living room and connected rooms. That assures a uniformly heated living room, during cool spring and fall days. No draughts. No cold floors. And a fireplace that is GUARANTEED not to smoke.

These advantages in fireplace construction are made possible by the development of the Heatilator—a double walled metal form, around which any style of fireplace—from Georgian to Tudor—from Rustic to Renaissance—can easily be built. This unit takes cold air from the room, passes it around the fire, and sends it out warm and healthful, to circulate over the entire room.



This is the Heatilator Unit around which the masonry is laid. Cold air is drawn into the double-walled chamber from openings within the room or outside. The air is heated and comes out above. Both intake and outlet openings may be located wherever you desire.

A perfect fireplace is guaranteed; there can be no disappointments, no smoking with the scientifically constructed Heatilator. The small additional investment is offset by savings in labor, materials and fuel. We'll gladly send you full details of this modern fireplace. Just fill in and mail the coupon today. THE HEATILATOR CO., 513 E. Brighton Ave., Syracuse, N. Y.

Heatilator Fireplace

MAIL THE COUPON FOR FREE DETAILED INFORMATION

HEATILATOR COMPANY
513 E. Brighton Ave., Syracuse, N. Y.

Send me without obligation full details of the Heatilator, also, nearest dealer's name. I plan to build ☐ remodel ☐ (which) No. fireplaces. ☐

Name .....

Address .....

Lily ponds without mosquitoes

by JULIA A. HOWELL
U. S. Health Service Malaria Investigations

FOR the very good reason that the water garden is a manifestation of the aesthetic tastes of the home owner it should be commended and encouraged; but on the other hand there is the counter argument that it is a breeding place for mosquitoes. This is recognized and is generally met by putting some fish or other "life" in the pool.

A majority of people seems to be under the impression that goldfish placed in waterlily ponds are sufficient to control any mosquitoes that might breed there, but such is not the case. Goldfish are useful only to a limited extent. They are slow, lethargic, and lazy. Although they will consume any larvae which may chance to float their way, they will not make an effort to secure mosquito larvae in preference to other forms of food. In fact, goldfish will often eat dead insects in preference to mosquito larvae.

INTRODUCE THE TOP MINNOW

The hardiness, voracity, and abundance of the tiny top minnow, known as Gambusia affinis, which is indigenous to the malaria belt, recommends it as a larvivorous fish. It is a surface feeder and is very prolific. These are two important factors to be considered in selecting the fish to be used, because the larvae of the malaria-conveying mosquito live, move about, and float on the surface of the water and because it is important that the pool be kept well stocked at all times. A few of these top feeders introduced into a pool formerly stocked only with goldfish will affect a decided decrease in the mosquito breeding. It is simple enough to combine the aesthetic with the practical here, inasmuch as the gambusia and the goldfish will live together in the same pool—the one ridding it of mosquitoes and the other adding the desired attractiveness.

In parts of the country where gambusia is not a native fish, it is probably more practical to use an indigenous fish which possesses larvivorous qualities similar to those of this top minnow. It must be a fish that feeds at the surface of the water, that is alert, quick, active, carnivorous, and prolific if it is to be effective.

SUBMERGE THE PLANTS

The task is not complete when a suitable fish has been placed in the pool. The larvae will cling to any foliage or waterlily pads on the surface of the water or vegetation at the edges of the pool, where the small fish are unable to find them. This difficulty may be overcome by submerging the plant growth so that the larvae will be accessible to the fish. This can be accomplished by using a screen constructed of coarse wire, such as chicken wire netting, to hold the plant just beneath the surface of the water. If this is done for at least an hour once each week, it will be found very advantageous—and it is interesting to watch the greedy gambusia consume the larvae as fast as they come to the surface from which their hiding places have been temporarily removed. Submerging the plants in this manner will not be injurious to their growth or beauty.

If the water level is fluctuated from time to time, it will aid the fish in their predacious attack on the larvae. In ponds where there is an abundance of plant growth, this would be impracticable, but where the plant life is limited, this method would be advantageous. The way in which fluctuation destroys larvae is to expose them along a vegetation-free margin to the fish.

It is advisable to keep all surplus vegetation trimmed from the edges of the pool and all floatage, such as sticks and trash, removed from the water.

A mixture of one part of Paris green to nine parts (by volume) of lime dust (or even ordinary road dust) may be liberated as a light dust cloud so as to pass over all parts of the water surface. This mixture will be fatal to the larvae of the disease carrying mosquito, but the water surface so treated will not be harmful to fish, vegetation or other forms of life. Miss Edna M. Southard, Malaria Control Division, Texas State Department of Health, suggests that "the mixture may be put in a cloth sack, the sack held over the pool and hit lightly with a stick so that a cloud of dust will settle on the pool." However, it will be effective to dust the mixture on the pool by hand or to use any method available to blow or dust it lightly onto the water.

BEWARE OF THE MALARIA CARRYING MOSQUITO

Mosquitoes are at best a nuisance, and certain species are disease carriers as well. Malaria, yellow fever, dengue fever, and filiasaris are all contagious only through mosquitoes, the two former being the most prevalent in the United States. At this time, yellow fever is under control, and it is therefore the malaria carrying mosquito that is most disastrous to our welfare. This mosquito is of the genus anopheles, which breeds most extensively in clean water, in pools and ponds with grassy edges, or among floating leaves, water plants, or other foliage. According to this information, there could be no more favorable breeding place for anopheles mosquitoes than the lily ponds in our own home gardens, and since these mosquitoes do not fly far from their breeding place, it is obvious that we may be raising our own brood of mosquitoes and thus harboring our own illness and possible death in what we have constructed for our recreation and pleasure.

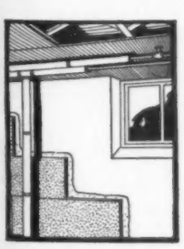
The wise home lover makes his garden not only beautiful, but he takes every precaution to make living conditions in and about his home unfavorable to the propagation of the mosquito nuisance and danger.

The American Home Employment Plan

CHECK LIST

Continued from page 357

58. Install an invalid's elevator to give greater freedom of movement for a person who cannot climb stairs. D.
59. Have wiring system checked over for compliance with insurance requirements. J.
60. Modernize lighting system—relocate fixtures, substitute wall brackets for chandeliers, provide new fixtures. J.
61. Install extra electrical outlets to eliminate long cords. J.
62. Install wall switches at entrances to eliminate pull cords. J.
63. Install new sink in kitchen or pantry. D.
64. Install an electric dishwasher. D
65. Install pilot light on selected switches. J.
66. Install night lights or bed lights with switch at bedside. J.
67. Eliminate batteries on bell call or annunciator system by installing small power transformer. J.
68. Provide low voltage current in the children's playroom for operating electric toys. J.
69. Modernize the laundry equipment—perhaps, including new trays, washing machine, ironer, or clothes dryer. D.
70. Install laundry chute. D.
71. Remove storm windows and winter vestibules in preparation for warmer weather (in early spring).
72. Early spring exterior painting of all items not previously repainted in the fall.
73. Repair cracked, loose, or fallen plaster on walls or ceilings. F.
74. Plaster basement ceiling on metal lath for fire protection, cleanliness, and better appearance, or surface with wallboards. F.
75. Cover defective plaster ceilings with fabric, wallboards or pressed metal to eliminate future repairs. F.
76. Install a ventilating fan in kitchen.
77. Correct defective fireplaces.
78. Install hearth and mantel for gas or electric radiant heater in bedroom or other room lacking chimney connections.
79. Install pine, oak, or other plank, or paneled walls in dining or living room. F.
80. Modernize obsolete interior trim and doors, replacing with new. F.
81. Repaint interior trim in one or more rooms, or throughout. F.
82. Insulate roof or attic floor to reduce heat losses in winter and to make second story or attic bedrooms cooler in summer. Also consider insulating sidewalls of house.
83. Line unfinished attic space with insulating boards or plaster to create extra room or playroom.
84. Build in new bookcases, window seats, china closets, telephone closet or cabinet, folding ironing board, children's toy cupboard, etc. F.
85. Dampproof basement walls on inside to prevent leaks.
86. Insulate cellar walls and cold water pipes to minimize condensation and dampness in mild weather.
87. Redecorate with paint, plastic paint, wallpaper, wall fabrics, wood veneer, or other material one or more rooms. F.
88. Kalsomine or whiten ceilings throughout the house. F.
89. Install new hot-water heater or tank.
90. Refinish hardwood or painted floors, or cover existing floors, with pre-finished or block type flooring. F.
91. Install linoleum, rubber tile, or decorative composition floors, or lay carpeting in selected rooms. F.
92. Install ceramic tile floors or wainscots in bathroom or kitchen. F.
93. Add new bathroom (by rearrangement of partitions or exterior addition, or in attic or other spare space). F.
94. Install shower enclosure in bathroom. F.
95. Install modern concealed radiation.
96. Cut up fire wood or replenish supply in cellar (local unemployment committees may have cord wood for sale prepared by unemployed).
97. Install an electric sump pump to automatically remove water from basement where subject to flooding during spring. F.
98. Install handrail on stairs (cellar, service, or main staircases), reconstruct cellar stairs for greater safety; install gate at head of stairs to safeguard children. F.
99. Recondition driveway, applying new crushed stone surface; reset brick or flagstone walks or terrace pavements where lifted by frosts.
100. Put garden tools in order for spring use—repair and sharpen lawn mowers, repaint wheel-barrows, roller handles, and clean up and oil all metal work on tools.

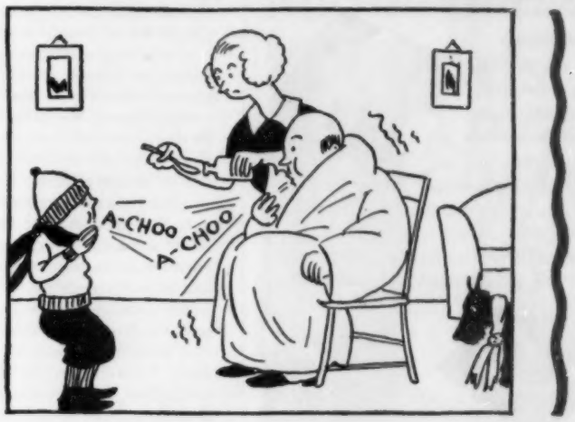


To mimimize condensation and excessive dampness in the cellar insulate the cellar walls and cold water pipes as discussed under item 86 on page 360

Item 83 on page 356 suggests the use of insulating boards or plaster for lining an unfinished attic space, thereby creating an extra bedroom or recreation room

Modern concealed radiators not only save space but increase the decorative value of a room. This is discussed in more detail under item 95 on page 360

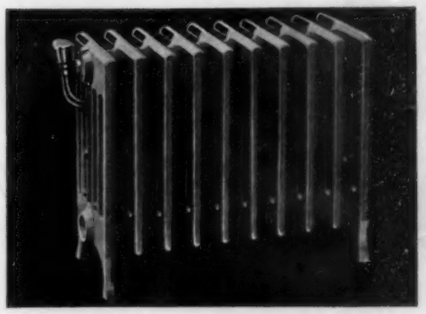
Who wants to be a CAMEL?



YES, who *does* want to be a camel? A camel can go eight days without water. Our friends, the Camel family, pictured above, are going eight months without moisture—without the proper amount of humidity that is essential to health and comfort. The result: croups and colds and doctor bills all winter long—and a larger coal bill.

The problem of providing sufficient moisture in the air has been, until now, a difficult and expensive one to solve. But here, at last, is a simple, inexpensive humidifying radiator—the HUMID-HEET Air Conditioning Radiator.

The HUMID-HEET costs little more than the ordinary radiator. It provides humid, healthful heat easily and automatically. It takes only two of these radiators to humidify the average home, and they can easily be installed to replace two of your present radiators. Now you can enjoy healthful, humid heat at little cost. Send the attached coupon for complete information.



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Please send us complete information about your HUMID-HEET Air-Conditioning Radiator.
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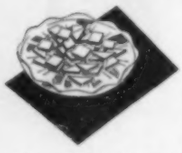
THE GLASS OF FASHION

CHEERIO

This cheerful Fostoria set will win a welcome in any home. It consists of a plump and benevolent decanter surrounded by its offspring . . . 6 little glasses which resemble their parent. In azure, green, rose, amber, topaz, and wistaria. Its use among congenial people adds so much to pleasant living.



APPETITES AND COLOR

A buffet, to be successful, must be more than a collection of various foods. It must also be a delight to the eye. That explains the tremendous vogue of this large Fostoria buffet dish among women who are clever at entertaining. This graceful "Torte" plate comes in amber, crystal, green, rose, topaz and wistaria. Through its charming presence on a table, the simplest buffet can be made a delight to the eye . . . *and* so many times more appetizing.

HOW WILL YOU HAVE YOURS?

Cream? Sugar? . . . if it's after-dinner coffee. Cream? Sugar? Lemon? . . . if it's afternoon tea. For this colorful and graceful Fostoria set is equally useful for either function. With coffee, the sugar bowl and creampitcher may be used on the tray. With tea, the tray becomes a charming dish for sliced lemon. In five subtle shades, this set is a lovely and inexpensive gift to give a friend . . . or yourself.

BULL IN CHINA SHOP

This picture shows Henry W. Banks III, the noted research engineer. For a whole month he played bull-in-china-shop and smashed hundreds of dishes, cups and saucers. As a result of his tests, he announces that, "Fostoria Glass Dinnerware, in spite of its apparent delicacy, is actually *far less breakable than ordinary china.*" And that's worth knowing.

●

To get the smartest and latest information on table settings, both formal and informal, write for the interesting booklet, "The Glass of Fashion" . . . Fostoria Glass Company, Dept. AH3, Moundsville, W. Va.

Fostoria

Fostoria

The American Home Employment Plan

Continued from page 356

decorated in a variety of manners. If the flexible or adhesive type insulators are employed, the underside of the roof may require in addition a surface finish of lath and plaster; the method used depending upon the character of finish desired.

85. Dampproof basement walls on inside to prevent leaks. Before the ground thaws and the spring rainy season opens, the cellar walls should be dampproofed if in previous seasons they have shown leaks. The methods of accomplishing this work vary so greatly according to the conditions actually present that the most practical solution is to consult experienced masons, contractors, or specialists in waterproofing.

86. Insulate cellar walls and cold water pipes to minimize condensation and excessive dampness in mild weather. In relation to the last item, remember that a great deal of dampness in cellars is not due to leakage in the walls but to the condensation of moisture on the cold masonry and on exposed cold water pipes when the heating plant is shut down and warm humid air enters the cellar. These cold surfaces condense the water from the air like dew; the water drips or runs to the floor and creates an impression of a leak. This has ruined many otherwise attractive recreation rooms. To minimize the difficulty the following steps should be taken: First, have all of the cold water pipes heavily covered with a heat insulating material similar to that used on steam pipes. Second, some method of keeping the moist air from the cold basement wall surfaces must be developed. One method is to have a mason or specialist apply two-inch thick blocks of corkboard directly to the masonry walls with cement or hot pitch. Another is to have wood furring strips (wood strips 1 x 2") fastened to the masonry walls over which are applied a suitable lath and at least two coats of plaster. Certain types of insulating wallboards may be also used instead of lath and plaster. This latter method keeps most of the air away from the walls but a certain amount of moisture may drip down the masonry walls behind the plaster. This should be taken care of by cutting a shallow gutter in the cellar floor carrying it to drain to some low point where it can do no harm.

89. Install new hot water heater or tank. If you rely upon your furnace or boiler for your winter hot water supply, the summer season brings a new problem of operating a separate hot water heater. Consider the installation of a modern automatic, instantaneous or storage type hot water heater; or as an alternative, you may find it best for your conditions either to install a small coal fired heater or to have your contractor adapt your heating boiler and oil burner installation so that the latter can be used as the source of an all-year hot water supply. Consult your plumber and your heating contractor regarding the alternative methods above suggested.

95. Install modern concealed radiation. Instead of waiting until next

ENTERTAIN economically and have *Good Things to Eat.* You will find excellent suggestions in every copy of

American Cookery

The household Magazine of recognized authority which tells you how to make and serve

"Grapefruit Bavarian Cream"
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How to select and cook your favorite dish, how to serve it and what to serve with it; forty or fifty choice and seasonable recipes in each number, many of them illustrated.

"Grapefruit Bavarian Cream"

"AMERICAN COOKERY" gives menus for every possible occasion. Dinners, Luncheons, Wedding Receptions, Card Parties, Sunday Night Suppers, etc. Also contains timely Household Articles and good fiction.

If you have a family you *need* this Magazine, for using it will help you to set a **better table for less money.**

"AMERICAN COOKERY" is $1.50 a year but SEND us One Dollar (cash, check or stamps) and we will send you AMERICAN COOKERY for the rest of 1932, starting with the March number which contains recipes and directions for "Grapefruit Bavarian Cream" and many other good things. Address

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The quick, clean way to spotlessness

You can be proud of the spick-and-span look of your toilet bowls. And you don't have to scrub and scour to clean them. This mean household chore is old-fashioned. The modern way is with Sani-Flush. You can do it in a few minutes.

Just sprinkle a bit of this antiseptic, cleansing powder into the closet bowl (simple directions on the can), then flush the toilet. Away go impurities and stains. The bowl becomes bright and clean, and that hidden trap, beyond the reach of a brush, is purified and safe. There is nothing to harm the plumbing.

At grocery, drug and hardware stores, 25c. (*Another use for Sani-Flush — cleaning automobile radiators. See directions on can.*)

SANI-FLUSH
cleans closet bowls without scouring

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Write today for complete information on how San-Equip Sewage Disposal Systems permit you to enjoy modern plumbing conveniences in any house with running water. Learn how San-Equip safely disposes of all waste, protects health, adds to living comfort. Learn about San-Equip Certified Systems that assure you against unhealthy and annoying breakdowns and provide a more durable, dependable service than ordinary septic tanks.

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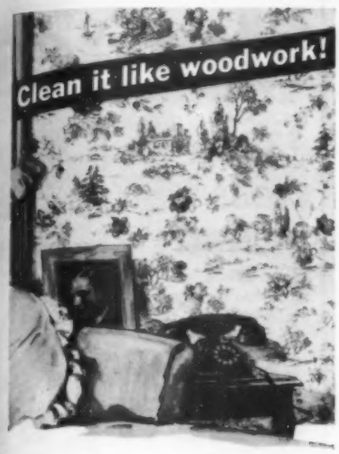

Charming New Walls Cost Less this Spring

Now is the time to decorate with Sanitas. Take advantage of the new price—twenty per cent lower than last year.

Sanitas is the original washable cloth wall covering that can be cleaned as easily as woodwork. A sponge and warm water keeps Sanitas looking new and attractive for years. The ideal wall covering for cracked walls. Protects new walls and ceilings.

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BEAUTIFUL BIRDS

4 Pairs Assorted for $15.00

1 Pr. Green Parakeets -	$5.00
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1 Pr. Zebra Finches -	3.50
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Write Doubleday, Doran & Company, Inc., Garden City, Long Island, for a list of their NATURE BOOKS.

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20 beautiful and authentically correct fireplace renderings by noted architects, under the supervision of America's foremost authorities on fireplaces. This folio will save you money. It gives real information on the fireplace healthful, smokeless, ventilating, free-burning and unusually effective in heating!

SEND $1 TODAY and assure yourself of the most gratifying fireplace investment.

BENNETT FIREPLACE CORPORATION
Dept. B-13, Norwich, N. Y.

The American Home Employment Plan

fall when prices will be higher, consider the possibility of installing modern concealed radiators in place of the exposed radiators you now use. You will enjoy the extra space saved throughout the spring and summer months and will be ready for next fall and winter when restored economic conditions will probably increase the cost of the change. Keep in mind that unless hot water heating is employed, the use of one or two concealed radiators is not satisfactory in conjunction with any exposed cast iron radiators because the new units respond much more quickly and will not give uniform heating unless they represent at least 60% of all of the radiation.

96. Cut up fire wood or replenish supply in cellar. Local unemployment committees may have cord wood for sale prepared by unemployed laborers. This work is worth doing now because the fireplace will be in demand in the spring.

99. Recondition driveway, applying new crushed stone surface; reset brick or flagstone walks or terrace pavements where lifted by frosts. In the northern sections of the country frost action causes damage every spring that needs a little repair and replacement work. Common laborers can do most of the work suggested. Material dealers or local crushed stone or gravel quarries will usually supply and spread driveway surfacing materials.

100. Put garden tools in order for spring use—repair and sharpen lawn mowers, repaint wheelbarrows, roller handles, and clean up and oil all metalwork on tools. This is spare time work for the man about the house or for some unemployed man who will more than welcome the income from a few hours of work. Instead of delaying the reconditioning of garden implements until they are needed outdoors, this work should be done at once.

My favorite salads

Continued from page 340

a tiny lettuce cup filled with mayonnaise on one side and two or three olives on the other.

FRUIT COMPOTE

1 orange
1 grapefruit
2 tablespoonfuls of white grapes, seeded and cut in half or the seedless grapes when they are in season
2 bananas
2 slices of canned pineapple
½ cupful of lemon juice
Sugar to taste

Cut the fruit in pieces of even size. Blend with sugar and lemon juice. Place in the ice-box until time of serving and serve very cold in compote or sherbet glasses.

Importés are oblong pieces of very fine French pastry, sprinkled with a

This mark of distinction is stamped on each piece.

The Tang of Salt Air

You can fairly smell the salt and hear the boom of the surf on the headlands when you and your guests are gathered around this table. The cost of the complete grouping is surprisingly low. Write us for the name of the dealer in your community who will show you genuine Conant-Ball reproductions.

Send for our booklet showing other pieces from this unusual line.

CONANT-BALL COMPANY, BOSTON, MASS.

Learn how HOFFMAN *Vacuum Valves*

CUT FUEL COSTS 1/3

Here's information worth actual dollars and cents to every owner of a steam heating system. No. 2 Hoffman Vacuum Valves on radiators bring your old fashioned heating system up-to-date, save you money, and create an amazing degree of new home comfort.

Air in the heating system causes sluggish, hard-to-heat radiators. No. 2 Hoffman Valves *vacuumize* the system—let out all air from pipes and radiators—*and keep it out with patented double air locks.* Result: Steam rushes through air-free pipes—radiators heat in 15 minutes after opening drafts and hold their heat for hours.

Fuel bills, too, are sharply cut. For in a vacuum, water boils at a lower temperature, requiring less fuel to produce steam.

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Expensive? Not at all! And fuel savings quickly pay the cost. Ask your heating contractor about the easy terms on which you can Hoffman-ize your radiators. Or mail the coupon.

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No. 2 Vacuum Valves
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bridge clubs vote two tickets!

CAUTION: Our labels are imitated.

2 kinds of MARTINI

VERMOUTH WINS cocktail elections! Landslide for Martini & Rossi's two popular favorites...the sleepy brunette dry, "Italy bottle", and its gay blonde running mate, "Dry bottle" (more dry—vamps palate.) Know your vermouths and you know your cocktails. (New rage—shaker's successor—"Automatic Bartender" has directions on glass—shows where to fill for 6 famous cocktails. Only $1.50). Send dime for Cocktail Wheel, recipe movie! See below.

IMPORTED, non-alcoholic

MARTINI & ROSSI VERMOUTH

Write Name and Address in Margin

Enclose 10c for "COCKTAIL WHEEL". Send $1.50 ($1.75 West of Miss.) for Bartender (2 views). Mail to W. A. Taylor & Co., 12-16 H Vestry Street, New York.

My favorite salads

little bit of sugar and browned in the oven. You can make them yourself but they are purchasable at any of the better grade bakeries.

Another delicious and quite unusual salad is:

FROZEN SALAD

1 cupful mayonnaise
2 cupfuls whipped cream
3 cupfuls diced canned pineapple
3 cupfuls orange sections cut in half
3 cupfuls sliced peaches
6 cupfuls diced bananas
2 cupfuls marshmallows, quartered
2 cupfuls pecans
2½ tablespoonfuls of gelatine
1¾ cupfuls orange juice
1¾ cupfuls pineapple juice

Dissolve the gelatine in the heated juice, add to the mayonnaise and whipped cream which have been folded together. Blend and let stand until it begins to stiffen; fold in cut up fruits, marshmallows, nuts, and cherries; put into moulds. Set in your electric refrigerator to freeze over night. Serve on lettuce leaves with a dressing made of equal parts of mayonnaise and whipped cream.

GRAPEFRUIT SALAD

Cut leaves of Romaine about two inches long. Use the tip ends only. Lay on a green glass salad plate. Peel two large grapefruit and cut each segment between the fibres so that it is free of all fibre. Lay the grapefruit segments whole on the Romaine. Sprinkle lightly with granulated sugar. Pour over each portion two tablespoonfuls of French dressing. Garnish with cress and a dash of paprika. Serve with cheese dreams, prepared as follows:

Cut bread into slices about ⅛ of an inch thick. Cut center into shape with a fluted biscuit cutter. Use half a pound of grated American cheese, the snappy kind. Spread the bread freely with butter then pile high with grated cheese and sprinkle with mustard and paprika. Place in the oven. When it begins to brown serve on a pretty silver tray or platter garnishing with parsley and olives stuffed either with pimentos or with small onions.

As I said in the beginning, there is no place that I know of where salads are so delicious as in America. Of course, like every good thing, they can be over done and once in a while one finds a combination that is far from pleasing. One must have fine taste indeed to make a good salad. A "fine feeling for food" is essential to every housekeeper and each dish she produces. Well blended as to dressing, well combined as to materials, a salad is nothing but a never ending source of joy, the sauce piquante to a left-over roast, the saving grace of many an otherwise tasteless, colorless meal.

And speaking of left-over roasts, try this way of using cold meat of any kind. Slice the meat as thinly as possible. Then with a small cutter make each slice into circular wafers. Blend with French dressing, a little bit of onion chopped fine, some chives also chopped fine, and a few capers. Mix lightly with the meat and serve on crisp leaves of endive.

BEAUTIFY YOUR YARD Gently turns in the breeze—drying entire wash evenly and spotlessly clean. Stand in one place to hang up entire wash. Folds like an umbrella to store away. 135 ft. finest line. Turns in only 15 ft. of space. Does away with unsightly clothes poles. Illustrated folder A-230. FREE.

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Echo Bridge Curtains

Yours for the asking . . .

...a generous sample of lovely NU-TONE Marquisettes. You'll love the gossamer transparency, and the shimmering lustre of these charming flat or ruffled curtains with or without ruffled valances.

Samples of our regular NU-TONE MARQUISETTE M 176—and of M 76, a new weave with heavier thread that is particularly lovely—are also yours for the asking. Then when you decide on the curtain styles and lengths you want, you can buy right from the sample at your favorite store.

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only $979
Fire-proof Cellar Ceiling

ROSEWOOD, above, only $979, double construction, 5 rooms, bath. Freight paid. We cut lumber at mill, saving expensive time of carpenters. Detailed plans enable easy erection—large savings. We will furnish "Steelface" joists for first floor with fire-proof "Gyplap" cellar ceiling, making your home safe against any fire from your cellar. Also—Thermofill Insulation, bronze weather stripping, paint, hardware, 1-panel de luxe doors, etc. 84 low-priced modern, attractive homes for your selection. Build now! Also garages, summer cottages. Send 25 cents today for catalog in color. Estab. 1906. International Mill & Timber Co., 231 Wenona Ave., Bay City, Michigan.

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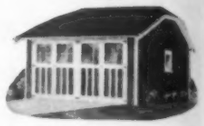

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Dodson's 28 room Cottage Style Martin House, 22-in. high...Price $18.00—With easy raising pole $20.00.

JOSEPH H. DODSON, INC., "Bird Lodge"
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Flowers for the Connoisseur!

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A Collection of Rare Distinction and Unusual Charm

Tithonia Speciosa—Golden flower of the Incas—cut for centuries and just reintroduced by Schling. A superb exotic (8 to 10 ft. tall) with deeply indented foliage covered with brilliant orange-scarlet blossoms. Splendid background. **Pkt. $1.00**

Nasturtium Golden Gleam—a double, sweet scented variety of a bright golden color. A distinct novelty sure to be a great favorite **Pkt. 25c**

Nicotiana, Crimson Bedder—a dwarf variety of pyramidal habit producing a mass of rich, dark crimson flowers. Very striking. **Pkt. 50c**

Annual Summer Chrysanthemum—gayly variegated in color and markings. Long blooming, easily grown, they are extremely effective in vase or garden. **Pkt. 25c**

Carnation, Glory of the Riviera—new strain of the famous garden carnations of southern France. Blooms from midsummer to frost. Very fragrant. Mixed **Pkt. 50c**

Escholtzia, Ramona—a lovely new Poppy of a pale, glittering coppery gold. Extremely large and heavily frilled. **Pkt. 25c**

Marigold Ranunculoides—a tall variety of an unusually rich, dark brown color. **Pkt. 25c**

New Single Fringed Petunia, Giant Copper Red—A new color in Petunias, very rich and striking. **Pkt. $1.00**

Salvia Farinacea—long spikes of loosely clustered pale blue flowers rising high above the foliage and long blooming. Splendid background. **Pkt. 50c**

Cut-and-come-again Stock, Double Salmon Pink—Very decorative indoors or out. **Pkt. 25c**

Dahlia Flowered Zinnia, Oriole—a true Zinnia aristocrat of gigantic size, very double and gorgeous orange and gold coloring. **Pkt. 50c**

Pansy—Mrs. Pierre S. du Pont—An astonishing novelty of large size and a profuse bloomer. In color a beautiful golden apricot unmarred by markings. **Pkt. $1.00**

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Schling's Seeds

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Send for our BOOK FOR GARDEN LOVERS —35c a copy.

Garden fragrance from shrubs

Continued from page 330

(Rhus canadensis). It rarely exceeds five feet in height, often broader than high, lower branches touching the ground, upper branches spreading or drooping. The branches are covered with bright yellow flowers in April before the leaves appear, followed by red fruits in the fall. The leaves are three-parted, have a spicy odor when crushed and assume brilliant shades of scarlet and orange in autumn.

No list of fragrant shrubs would be complete without mention of the large family of Roses, but no attempt will here be made to discuss the modern garden types as they are a story to themselves elsewhere in this magazine.

The Single or Bush Roses are of more general use in the shrub border and require no special attention. The first, Rosa hugonis, is a Chinese species about six feet high, with small pale green, graceful leaves and long arching branches. They are profusely covered with large flowers early in the rose season. Individual flowers are about two and one half inches in diameter, sulphur yellow in color, and have a delicate perfume. Even after flowering it is still ornamental because of its red young shoots.

A yellow-flowered species from Afghanistan, which resembles the Hugo Rose both in foliage and bloom, is Rosa ecae, easily distinguishable, however, by the strong, aromatic fragrance of the foliage.

The Sweetbrier (Rosa rubiginosa and its hybrids) are a lovely group useful for backgrounds in the shrubbery border. The foliage being especially fragrant after a rain.

Among the large group of Viburnums there is the most fragrant Viburnum carlesi, one of the hardiest and most beautiful shrubs introduced from Korea. This compact, round-topped bush grows four to five feet high, blooming in May. The round clusters of white flowers open from pink buds and emit a scent of cloves that fills the air around. As all the flowers do not open at the same time, the contrast between the pink buds and white flowers is striking. The fruits are blue-black and ripen in September.

Last, but not least, think of the indispensable Common Lilac. Because of its high sentimental value it occupies a place that no other shrub can fill. It is not alone for the beauty of its fragrant flowers that it is of such high value, but also for its association with the old fashioned gardens of bygone days.

Lemoine is responsible for the more floriferous modern French hybrids, which are found in a bewildering array in blue, violet, red, pink, white, both in single and double flowered forms. Unfortunately fragrance seems to have gone out from the flower as "improvements" came in, by constant breeding and selection. The Lilac species such as Rouen Lilac, Persian Lilac, Amur Lilac, Hungarian Lilac, are used for tall screen hedges, for massing, or as specimens, and are of easy culture.

Dahlias

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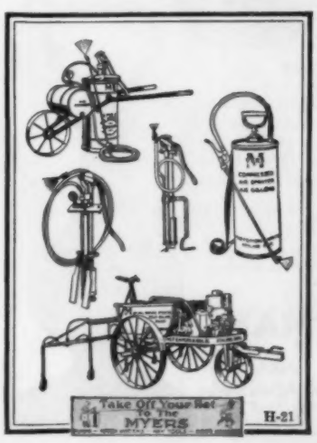
NO professional growers attempt to raise trees, shrubs, fruits, flowers or vegetables without spraying regularly to guard against fungus and insect pests which are ever ready to destroy their plantings. Your own garden can never reach its greatest beauty and productivity without the same kind of spraying protection. The task becomes simple and inexpensive when you have spray equipment of the same high quality and made by the same factory that supplies so many market growers with their spray outfits.



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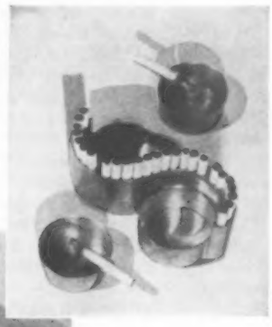
SAVABRUSH

Shop Windows *of* To-day

by DIANA NORTH

EVERY Chinese has his own snuff bottle, as snuff is still universally in use in the Orient, whether it be one of the common variety or one delicately fashioned in jade, amethyst, or some other semi-precious stone. The three bottles at right might have come from China for they are perfect reproductions, the color a soft mottled beige and brown; the black stand in imitation of teakwood. Very cleverly made of bakelite for Dorothy Gray and containing her famous manicure lotions. Certainly a distinguished note for your dressing table, priced at $7.50. You should know about the new powder compacts, because though many people prefer loose powder, they find it impractical as it is so messy to use. The



Dorothy Gray compacts have been worked out on an entirely new principle. By opening the case and bending it back as far as it will go, it releases just enough loose powder for your puff to hold. The square case has a smart enameled top in graduated shades from powder blue to an almost navy blue. Single compact $2.50; double $3.00 Triple compact containing powder, rouge, and lipstick, $3.50. DOROTHY GRAY, *683 Fifth Avenue, New York City.*

No matter how well decorated a room may be, it will not be successful if you do not provide the necessary comforts. Cigarettes, matches, ashtrays should be in reach of practically every chair. To solve this problem I found the smoker's table (below) ideal. 20″ high. The top 10″ in diameter is large enough for a match case, ashtrays, and a cigarette box, though a drawer in the side has four different sections for your favorite brands. Mahogany, maple, or walnut finish $5.95 (including match-case and two green glass ashtrays) express collect. BOULEVARD SHOP, *220 Northern Boulevard, Flushing, L. I.*

A matching set of ashtrays (above) for the bridge table is made in the very modern combination of pewter and copper. The center ash receiver in a very original shape is made of

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3-IN-1 TABLE *for* telephone books or bedside

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A beautifully proportioned, sturdy table that — at wish — becomes a telephone stand, book and magazine table, or a clever bedside table for lamp and magazines. Comes in Mahogany or Walnut finish. Top measures 12″ x 15″. Stands 30″ high, Shipped knocked down. Easily assembled with only one screw.

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5¼″ wide

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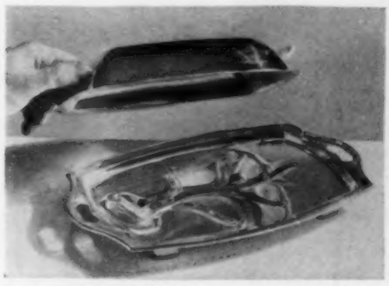
pewter and holds twenty-five cigarettes; quite enough for the afternoon or evening bridge game. There are also four copper receivers. The separate trays fit snugly into the two containers in the set itself. Price $3.95 postpaid from THE METAL-URGISTS, *Taunton, Massachusetts.*



When there are only two or three for dinner at home and there is no need for a large platter, the one shown above would be doubly useful. It is made of silver plate with a convenient handle at either end, and stands firmly on its four squat feet, thereby saving your damask tablecloth. The cover makes an ample sized vegetable dish. $6.75 postpaid from HEATHER-MATHEWS, *411 Fifth Avenue, New York City*

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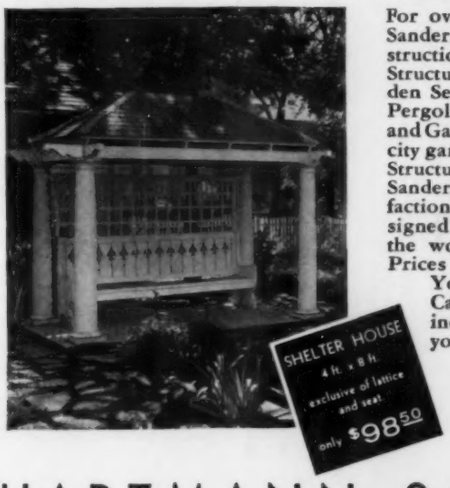

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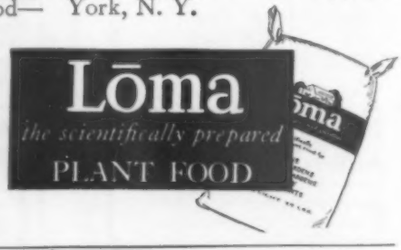

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Desk A-3
Cupsuptic Nursery
FOUNDED 1905
Oquossoc, Maine

Annuals

Continued from page 323

this is done regularly the task will not be great. I am so enthusiastic over this plant that I can never sing its praises enough. I have had beds of the large purple Petunias bordered with it, also beds of Calendulas, Zinnias, pink Petunia Rosy Morn, Snapdragons, and so forth—pictures innumerable and each made lovelier by the juxtaposition of Ageratum.

Alyssum is a fine white border plant growing six inches high and so well known as to need no description. It does just as well when sown where it is to bloom and does not need thinning. It blooms quickly from seed. The lavender variety is too pale to be pretty.

Antirrhinum (or Snapdragons as they are better known) are fine annuals sending up spikes of bloom in dwarf, intermediate, and tall types. Their colors are innumerable and all desirable. For best results plants should be started inside in February or March and then set out in the ground nine or ten inches apart the last of May. They need good cultivation and one or more applications of sheep manure as the season advances. We raise very fine spikes of bloom quite equal to the florist's under glass.

Asters in all the lovely varieties are so wonderful to have when they behave themselves. But when and where do they do so? There seem to be so many things that can happen to the Aster plant, the worst of which is the yellows, I think. I like the single kinds best and do think they resist the diseases better. They are splendid for cutting with or without other plants in a bouquet. When setting all Asters I put a handful of wood ashes and lime around their roots. The ashes are a fertilizer especially enjoyed by Asters and the lime keeps away the blue lice that often infest the roots.

Calendulas are one of the "must haves." We grow them here in four beds of one color each bordered with Ageratum. They are fine for picking and have a long season of bloom.

Candytuft is splendid for picking. I sow it where it is to bloom and do not thin it as I find it blooms just as well without and gives more stalks for picking for which it is most useful. Its season of bloom is so short that it is hardly worth while to plan on it for garden color effects. All the colors are good especially the lavender besides the better-known white. It will bloom again if cut back after the first flowering but the bloom is so small that it isn't worth while. I generally pull it out as I pick it.

Coreopsis (or *Calliopsis*) takes me back to my childhood. It was always in my mother's garden, and was one of the favorites. There are many varieties of the plant now, both tall and dwarf, in shades of yellow and mahogany self colored and these colors combined. They are good for picking and should be sown where they are to bloom as they do not transplant well. Six inches apart is sufficient room for them.

Centurea cyanus (or Batchelor Buttons) are fine plants for picking, especially the double dark blue, a truly blue flower. These plants need from ten to twelve inches for proper development. They often seed themselves quite freely and come up the following spring if seed pods are not too carefully removed.

Cosmos are indispensable as they bloom so late in the fall and are such splendid specimens for cutting. We get the extra early variety and while neither bush nor blossom is as large as the later flowering kind, they do bloom from late July until blackened by frost. The larger variety does not bloom early enough for us.

Cynoglossum amabile (or Chinese Forget-me-not) is one of our truly blue flowers. As its name implies, it is a Forget-me-not shaped flower of the most intense sky blue with many flowers open at a time. It has a fairly long period of bloom and is useful for cutting. Its seed pods are beautifully formed and almost as lovely as the flowers themselves.

Dianthus (or Annual Pinks) are fine garden subjects. They bloom very freely the entire summer, are excellent for cutting and are splendid planted in masses directly in the ground where they are to remain. They have no fragrance as have the perennial kinds. Salmon King, Fireball, and Snowball are excellent sorts of solid colors.

Eschscholtzia. What a name to give such an adorable plant as the California Poppy! He who has seen it growing wild along the railroad tracks in California cannot but admire its bravery and when it grows among the wild blue Lupins of that same state it surely is a sight to be long remembered. There are many hybrids of different colors in this plant but I like the plain yellow one best. It is very useful for picking for the house and lasts quite well.

Gypsophila is surely one of the "must haves" as what bouquet is not made more lovely by the addition of its airy grace? This is one of the few plants that thinning does not improve. We plant it thickly where it is to bloom and and pull it out as we pick it. For a succession it should be planted every two weeks.

Annual Larkspur is a very useful plant when it comes clear and true. I was very much disappointed in this plant last summer. I devoted a large bed to it starting the plants in the greenhouse. When they bloomed they were all striped or mixed. The colors were not clear though I had good seed of separate colors. I do not know what the trouble was but the result was decidedly unsightly. But do not let anyone be discouraged about growing this annual as it might never happen again to me and may never happen to you.

Lavatera is a good pink or white annual not very much seen in gardens. It has a flower much the size and shape of a Morning Glory but is pink or white. It is useful for cutting, having a long period of bloom.

Lupine. How fond I am of this flower both annual and perennial. Why is it not more generally grown? Sky blue, dark blue, white, and rose are the only shades offered in America. The blues and white are very good but the pink was a decided failure with me. The English Lupins grown by me for the first time last summer were a decided acquisition. The pink was clear but a trifle pale for real value; but there is a splendid dwarf

Annuals

blue, subcarnosus, very much worth while as its color is a new shade of blue in these plants.

Marigolds, both the enormous tall African and the dwarf French are indeed splendid and equally useful. For best results they should be started indoors.

Mignonette is grown principally for its fragrance. Its flower spikes are not particularly pretty but might be termed quaint and surely emit an elusive unusual odor. It is best sown directly where it is to bloom but if one desires to start it indoors, seed may be sown in thumb pots and shifted as they grow. Remove all but one seedling in each pot when the true leaves develop.

Nicotiana Hybrids is really glorified Tobacco. It is not generally grown, but is very handsome. It grows about four feet or more high and has long sprays of starry blossoms in glistening white, pale lavender, and many rosy shades. It has a peculiarity in that the flower closes and looks quite wilted during the hottest part of the day but opens again as soon as the direct sun passes on. They last many days in bloom. The flowers when picked remain open in the comparatively dim light of the house.

Myosotis (or Forget-me-not) is not a true annual but a biennial. It must be grown at least from the previous August and will then bloom in the spring. It sows itself so freely if some plants are allowed to go to seed that one may supply one's friends with literally hundreds of plants and still have more than enough for one's self. Sutton's Royal blue is the handsomest I have found and here we grow it with spring bulbs. Its deep blue is absolutely charming.

Nasturtiums need neither description nor introduction. We plant them very early where they are to bloom and they behave very well. It is best not to have too rich a soil for them as they sometimes go to leaves instead of flowers if this is so.

Pansies are splendid plants needing no description. The commercial grower prefers to start his seeds in August for next year's blossoms and what is more attractive and spring-like than boxes and baskets of Pansies on the walks and pavements before stores of all kinds in early spring? However, I prefer to start my plants in early January in the house and while the plants are not so handsome when setting out time arrives, I find they bloom longer than their robust brothers and are equally as handsome.

Petunias are emphatically another "must have." They are extremely well known and the newer varieties have quickly superseded the hideous magenta shades that used to prevail and made one hate the very name of Petunia. Rosy Morn is a splendid free blooming pink, Snowball a pure white, and Purple Prince the huge pure violet which in texture is finer than the finest velvet made.

Poppies are splendid annuals but rather short lived so here we scatter the seed where we wish it to grow and after the plants bloom we pull them out. There are many lovely shades and one not often seen we have here, a semi-double lavender with a purple blotch at the base of its petals.

Salvia (Scarlet Sage) is a fine annual where brilliant fall display is desired. This plant seems best to me used against white houses for foundation planting for in the garden it does not harmonize any too well with softer toned plants nor with the brilliant yellows of which we have so many at the time the Salvia is in bloom.

Stocks are another fine annual much prized for their delightful fragrance. There is a lovely clear lavender variety splendid for cutting which harmonizes well with other flowers, also a pure white, and many shades of pink, salmon, purple, and so forth.

Sweet-peas. The very name conjures up pictures of fairy blossoms lightly poised as if for flight. How lovely they are in separate colors or mixed—it matters not. And the fragrance—it is enchanting. But down to earth we must come and rich earth it must be. The ground must be deeply dug to a depth of at least two feet and heavily manured for best results. Peas may be sown directly in the trench on Good Friday, according to many old sages though I imagine this idea originated as a means to insure early planting.

Zinnias, the last of the "must haves." The Zinnia has been greatly improved in recent years, has been enlarged and many beautiful colors added.

Now we come to the lesser lights in annuals. No doubt many will disagree with me but, of course, "difference of opinion makes horse races."

Annual Anchusa—true blue, a little coarse but worthwhile
Balsam—many colors, blooming season short
Celosia plumosa—red, yellow, pink, rather artificial looking
Chrysanthemum—yellows and brown, rather coarse
Convolvulus Heavenly Blue—fine color, good vine
Didiscus—good color, shy bloomer, good to pick
Dimorphotheca aurantiaca, Orange Daisy—small flower, weak stems
Euphorbia—good foliage plant, green and white, green and red
Gaillardia—red and yellow, good for picking
Godetia—pinks and red, rather short season of bloom
Heliotrope—wonderful fragrance, shy bloomer with me
Kochia—foliage plant, red in fall, good informal hedge
Lobelia—light and dark blue, shy bloomer for me, good edging plant
Nigella—true blue, pretty but short season of bloom
Annual Phlox—red and pinks good, sprawls a bit too much
Salpiglossis—many good colors, frail plant, Petunia just as good
Scabiosa—lavender shade good, much like Didiscus but better
Statice—dry for winter, quite pretty
Verbena—splendid where they bloom well, delightful fragrance

Do not think me unappreciative of my "lesser lights" or unduly prejudiced in favor of my "high lights." No doubt some of you with different climatic conditions might find that my lesser lights blazed bravely for you or that some favorite of mine may misbehave for you. But I must be truly loyal to the faithful garden subjects who have responded to me so readily.

DOUBLE ROTARY JUNIOR SPRINKLER

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A gentle shower for your lawn, garden, flowers any time needed. Rain-like drops or mist spray evenly and thoroughly distributed without *any* waste of water. Easily regulated to sprinkle in a circle or in a straight line. Covers circular area up to 80 ft. (more than 5,000 sq. ft.) or down to 15 ft. in diameter, according to pressure. A big water saver! Adjustable nozzle. Self-operating. Built of finest materials.

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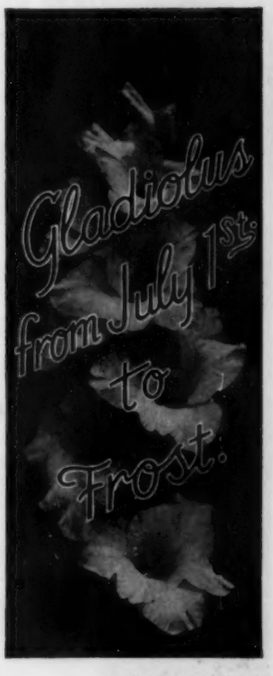
HEAVY DUTY Double Rotary (Shown below). The leading sprinkler for 13 years for golf courses, parks, cemeteries, institutions, large estates, etc. Sold under same guarantee and trial basis.

$12.50

NEXT BEST TO RAIN

GLORIOUS GLADIOLUS



The gladiolus is one of the most satisfactory summer flowers. Sure to bloom, easy to grow, infinite variery of colors, last a week or more when cut. Once you have grown a GOOD collection of "glads" you become a "glad bug" with as much "glad" enthusiasm as the golf bug has about golf. 100 large, healthy Vermont bulbs, $3 postpaid. This collection is our "get acquainted" offer. Contains 40 fine varieties in many shades of red, yellow, pink, blue, smoke, orange, white. All fine varieties but not labeled. If labeled would cost $11. This collection is not to be compared with the ordinary collection put out by other growers. It is in a class by itself. 50 for $1.75.

Collection of Exhibition Varieties

3 bulbs each of the varieties listed below. These are among the very finest exhibition varieties in existence. All labeled. 30 bulbs worth $3.20 at my low prices for $2 prepaid. Some growers would charge $5-$6 for these. This collection is not in my catalogue but is for American Home readers only.

3 MINUET, finest lavender.
3 CARDINAL PRINCE, cardinal red.
3 MARMORA, smoky gray, wonderful new shade.
3 W. H. PHIPPS, salmon-rose. Most popular variety in America.
3 AFLAME, immense rose, shading to flame.
3 BETTY NUTHALL, very fine orange-salmon.
3 CATHERINE COLEMAN, salmon-rose.
3 GOLDEN DREAM, finest clear, deep yellow.
3 MRS. P. W. SISSON, light pink.
3 YVONNE, white, cerise spot in throat.

Send for illustrated catalogue which lists the finest varieties from all over the world.

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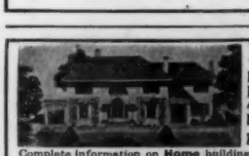

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Know Your Garden Inhabitants!
It's a pity to pay good prices for *named* varieties and then lose or forget the name! We make practical labels of lasting quality, different kinds for different plants. Free samples for the asking.
THE AQUAPROOF PRODUCTS CO.
2182 East 76th St. Cleveland, Ohio

In *and* About *the* Garden

[Edward Barrow]

Mr. Edward D. Jones, Columbus, O., a winner in the Estate Class III, "expert skill employed"

Mrs. Charles A. Emery, Pomona, Cal., carried off the first honors in the Amateur Class I, "all work done by the family"

Mrs. H. I. Sparey, Colorado Springs, Colo., has the premier award in the class "expert skill employed"

Mr. and Mrs. Fielding McClaine, Spokane, Wash., another winner in the "all work done by family"

Mrs. Louis H. Swenson, Poughkeepsie, N. Y., where "manual labor is hired," is a prize winner in Class II

MAY I invite you to accompany me to an intimate nook in some gardens that have been adjudged to be outstanding in their respective groups in all America. When a total of something more than six thousand suburban gardens spread over a fifty-mile radius of New York (City Hall) will formally enter their gardens in a metropolitan area contest—when such activity is displayed, surely there is something to ponder. And similar localized garden contests were conducted in more than seven hundred communities—evidence enough of the popularity and the activity of interest in those who enjoy garden making.

The National Yard and Garden Contest Association of America, with headquarters at Davenport, Iowa, stimulates to a certain degree, sponsors, and largely supplies the working material for these contests but there are others that are organized independently. Can there be any doubt of the tremendous stimulative force that is thus put into action? Sponsored originally by the American Association of Nurserymen as a campaign of publicity for the more intelligent use of better garden materials, the garden contests have largely reacted to civic improvement movements and village and town embellishment. Acting as a sort of final clearing house for the multitude of local contests so far as it gets in contact with them, the Association canvasses the local results and awards supervening prizes, dividing the contestants into three general groups: one, the personal amateur where all the work is done by the family; two, where heavy manual labor is hired; three, where expert skill is regularly employed. The final awards are made by judging photographs of the winners in the local contests. Though obviously liable to inevitable weaknesses, it is about the best thing that can be done under the circumstances.

Obviously, the prize gardens all over the country cannot be visited individually. However, the prize winners may be safely taken as typical present-day developments; and, as such, the accompanying photographs have a national interest. They are not all first prize winners but they are some of the most striking photographs out of the lot.

This is the third annual national contest conducted by the National organization at Davenport, Iowa. Over a thousand photographs were submitted to the final judges and surely it takes little imagination to see how the (*Continued on page 381*)

COMPLETE PLANT FOOD FOR LAWNS • FLOWERS • GARDENS • SHRUBS • TREES

You can have a lawn and garden like this

but not if it's HALF-STARVED

■ Now *a sturdy new Vigoro Spreader every family can afford! Only $1.95 (slightly higher west of the Rockies). Ask your garden supply dealer for a FREE demonstration. Applies Vigoro and grass seed on established lawns evenly, quickly, easily.*

YOUR lawn, flowers, shrubs and trees try hard. But they can't produce rich, lasting beauty if they're half-starved. Half-starved because hungry roots have been eating the food out of the soil for years. Or because the soil *never* was rich enough.

The square meal for lawns and flowers is 4 lbs. of Vigoro per 100 sq. ft.

Gardeners have tried to replenish the supply with manures and bone meal. But these lack certain necessary elements entirely, and others in proper amounts.

Fourteen food elements in all are needed for vigorous, sturdy growth. Knowing that—authorities now agree on it—the plant scientists and expert gardeners of Swift & Company went to work. And after long experiment, they produced, for the first time, a complete, balanced plant food for home gardens—Vigoro.

Vigoro is the *square meal* for plants. It contains, in the right proportions, *all* the food elements that plants must get from the soil.

Millions have fed this *square meal* with amazing success. 4 lbs. per 100 sq. ft. will do wonders for *your* lawn, garden and vegetables.

Vigoro is clean, odorless, easy to use—and economical. Your garden supply dealer has it in 5 convenient packs: 100-lb. bags to 12-oz. packages. Order today!

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■ **THE "GARDEN HOUR"!** *Famous artists singing and playing the songs you love. With the Master Gardener. Sundays, 3:30 P.M., E. T., 2:30 P.M., C. T., over NBC chain. See newspaper for your station.*

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NEW Roses and rare Roses, originated in America, in England, in France, and Australia, are now grown in quantity by the producers of the "world's choicest nursery products."

In this group are Hybrid Teas of marvelous colors—golden yellow, vermilion, scarlet, silvery pink, cherry-red, and copper-orange. Here, too, are Climbing Roses, brilliant in color and most desirable in habit.

In addition to these new Roses, there are many worthy and popular varieties, indispensable in every garden of Roses. All these Roses—new or old—are modestly priced.

Here we mention a few of the new Roses that have been introduced in America recently.

Hybrid Teas

Autumn. Bright yellow.
Helen Fox. Golden yellow.
Mrs. Sam McGready. Red.
Olympiad. Blood red.
President Deville. Red.
Mrs. Beatty. Soft yellow.
Roslyn. Golden yellow.

Climbers

Henry Linger. Yellow.
Royal Scarlet. Hybrid.

Hybrid Rugosa

Dr. Eckener. Pink, suffused gold.

Polyantha

Johanna Tantau. Rosy white.

ROSES
by
Bobbink & Atkins

is more than a catalog—it is a text-book on the best Roses for modern gardens. Nearly a thousand varieties of Roses are listed; their merits and demerits are freely discussed; all varieties are classified and arranged to make selection and ordering easy. A copy will be mailed free on request to those who intend to plant Roses. (A charge of 50 cts. must be made for catalogs sent west of the Rocky Mountains.)

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Patent Applied for

A New, Extra-Early Hardy Chrysanthemum

ALADDIN gleams like burnished copper and gold, as rich in color as the tapestries of an Emperor's palace. From early August to late November, long stems carry three, four, and even five large, glorious blooms. Superb for decoration, lasting 10 days or more after cutting. Awarded gold medals and certificates of merit as the best Hardy Chrysanthemum of recent years.

Strong plants, 3 in. pots, $1 each, $9 for 10, $80 per 100
6 plants at 10 rate, 25 at 100 rate

Send your order today to our Mr. D. M. Smith, and receive our 1932 Catalogue with superb color picture of Aladdin, with list of flower and vegetable seeds, plants and garden supplies.

BRECK'S 85 State Street BOSTON, MASS.

Garden reminders

North

Don't let the first warm days fool you. It is not yet time for general outdoor planting. . . . The hotbed and the coldframe are the gardener's best friends this month. Take advantage of them. . . . In the hotbed sow seeds of all the half-hardy annuals. . . . The following vegetables may be sown in the hotbed: Beans, Beets, Brussels Sprouts, Cabbage, Carrots, Celery, Cauliflower, Egg-plant, Lettuce, Kohlrabi, Parsley, Pepper, Radish, and Tomato. . . . Test temperature of hotbed often, sowing seed as soon as mercury goes below 90°. . . . Transplant seedlings from flats as they are needed, watching them and giving them air and water. . . . Seeds of hardy annuals may be sown when ground is workable, sometimes late in March when season has been mild, though April is generally safer; March may be cold. . . . March 31st is the earliest safe date for Sweet-peas. . . . Put nitrate of soda and salt on Asparagus beds and around Rhubarb plants. . . . Prune fruit trees, order nursery stock for April delivery and rake up litter. . . . Put lime in sour soil. . . . Uncover bulbs. . . . Prune Hybrid Perpetual Roses, Honeysuckle, and Clematis. . . . Take cuttings of Geraniums, Chrysanthemums, Coleus, Ageratum, Hydrangeas, and Fuchsias indoors. . . . Graft Apples and Pears, also Plums and Cherries. . . . Tie up Blackberries and Raspberries. . . . If weather is unusually mild start a few Peas, Beets, Carrots, Radishes, and Parsnips outdoors the last week of March. . . . Cabbage plants wintered over in the coldframe may be put out about the 25th. . . . Burn old branches. . . . Margin walks. . . . Transplant indoor seedlings into tiny pots. . . . Follow spraying guide for this month's spraying activities. . . . Start some Tomato seed in pots. Pot-grown Tomatoes do very well. . . . Get bean poles ready. . . . Give garden its final cleaning up, painting garden furniture, fences, trellises, and lattices. . . . Remove winter covering gradually, keeping covering handy in case of an April frost.

South

Miscellaneous—For the first two weeks spade, hoe, and fork up the soil. . . . Fertilize and work in manure, or bone meal, or commercial fertilizer, or decayed vegetation from the muck heap. . . . Remove weeds from the lawn with a trowel, filling the hole with good earth, and stick in bits of Bermuda-grass where needed. Or else, spade up the lawn and re-sod with Bermuda for summer, if necessary. . . . Where it is too shady for grass, use English Ivy, Ferns, Indian Strawberry, or Snake-beard (Ophiopogon japonicus), for ground covers. In runways, plant English Pennyroyal. . . . For terraces, Trailing Lantana and Moss Verbena are effective. . . . In the second half of the month prune, spray, and remove mulches. Postpone until all danger of frost is past, cutting away the dead foliage from tender plants. . . . Spray with oil emulsion for scale insects; bordeaux mixture for black spot; for mildew, dust with flowers of sulphur. . . . Transplant Camphors and other evergreens. . . . Do not prune Grapes after they begin to bud.

The Flower Garden—Plan this month for the fall garden and plant for that as well as for late spring and summer bloom. . . . Work and fertilize perennials, and keep them free from insects. . . . Divide Chrysanthemums, Phlox, and other perennials. . . . Sow seeds of all summer annuals, even the tender ones, after the middle of the month. Set out, in the latter part of the month, Ferns and other pot plants from the house, such as Begonias, Geraniums, Lilies, and the seedlings from the hotbed or coldframe. . . . Plant bulbs of Gladiolus, Montbretia, Watsonia, Ismene, Tuberose. . . . Plant tubers of Dahlias. . . . Make cuttings of Chrysanthemums and Poinsettia. Cut back the old wood on both these plants. . . . Weed out Montbretias where they are too thick. Divide Tuberoses and Gladiolus if necessary. . . . Plant Roses if they are still dormant. . . . Plant Althea, Crepemyrtle, Oleander, Hibiscus, Cassia, Duranta, Justitia, Jacobina, Erythrina Malvaviscus, Plumbago, and other shrubs for summer and fall bloom. . . . Plant Clematis, Morning-glories, Coralvine, Thunbergia, and other vines to cover fences and garages. . . . Set out the bulbs that bloomed indoors, after cutting off dead blossoms, and let the foliage ripen and new bulbs form.

The Vegetable Garden—Spade, fertilize, and cultivate the beds. Clear away all old growth, burning any diseased leaves. . . . Sow beets, Carrots, Early Cabbage, Kohlrabi, Swiss Chard, Chervil, Cress, Celery for cutting; Lettuce, Leeks, Parsley, Mustard, Radishes, Roquette, Spinach. . . . Near the close of the month plant Endive, Bush and Pole Beans, Melons, Squash, and Cucumbers. . . . Set out Eggplants, Peppers, and Tomatoes. . . . If the ground is warm enough, plant Lima Beans and Okra near the end of the month.

The West Coast

Remove weeds and keep the soil stirred and raked and look out for all garden pests. Fertilize old lawns and start new ones. . . . Divide and replant perennials. Sow annuals in protected flats, adding to the list, Nemesias, Lobelias, Forget-me-nots, Cosmos, and wild flowers in open places. Also set out young plants already started. . . . Complete planting of deciduous trees and shrubs, and begin planting tender evergreens. Select Acacias for succession of bloom, and make sure of Peppers that will bear berries. . . . Plant Lily-of-the-valley for house blooming, leaving the pots in the dark for three weeks, exposing to the light gradually. . . . Tuberoses may be set out now in coast regions where they have been taken up. . . . If the Roses do not look healthy, take them up and, if need be, prune the roots and replant in fresh soil.

First Year Success With Hardy Plants and Rock Plants Depends on Having Roots Like These

You would expect an Hemerocallis to have plenty of roots, but you hadn't expected a fork full like this. Now you know why Wayside plants grow so thrivingly and bloom so freely the first year.

This is Veronica. Just look at that husky top and the veritable bundle of the finest of roots. Such are the plants you get from Wayside.

Note the length and spread of these Dianthus roots. That's the kind we will send you.

YOU can't start wrong and expect to end right. You can't expect spindling, scant-rooted plants to give you satisfactory first year results. You can't expect one-year-old plants to have the sturdy stamina of Wayside full-rooted, sturdy, two-year-old, out-door grown clumps.

Such plants with their abundance of husky roots, at once take hold of the earth and start growing. They are all cranked up to go, so to speak.

Unfailingly they will bloom for you the first year.

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And another thing—there's our new catalog. It is even better than last year's. Larger. Contains more helpful material. There are no *general* growing directions. Each plant has *its own separate directions*. That's another reason so many sent for it last year. Reason enough for you sending for it this. It is the only catalog so far as we know, that contains individual growing directions. By far the finest book of its kind published in America. It will be sent free.

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To add **new** beauty, **new** colors, **new** variety to your 1932 garden, we offer a remarkable list of delightful giant novelties. With them you can make your garden the envy of all who see it. Order promptly to be sure of getting these **lovely new flowers.**

Snapdragon Floradale Salmon-Rose (Antirrhinum Maximum). This beautiful shade adds a new and much sought after color to the Maximum group and gives us the most gorgeous Snapdragon of all. It is a lovely salmon combined with begonia-rose. **Per packet 35c**

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ANY 4 FOR ONLY $1.00

The regular price of the lovely new flowers described above is 35c a packet. Act promptly and you may have your own selection of any four for only $1.00 (regular price $1.40) or any assortment of ten packets for $2.00 (regular price $3.50). Don't risk disappointment. Write today.

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See Pages 6 and 7 of Dreer's 1932 Garden Book for descriptions of the varieties and advice on how to get the best results with them. This authoritative work will be sent free on request to those interested in grass seed, vegetable and flower seeds, roses, perennial plants, etc.

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Your seed dealer can supply you with ADCO, or it can be had direct from us.

Every bit of vegetable refuse —leaves, weeds, cuttings, etc., from the garden; straw and cornstalks from the farm — can be turned into rich, valuable manure *without animals* by the use of ADCO.

You owe it to yourself to know about artificial manure and how to make it. Won't you let us send you our booklet? It's free.

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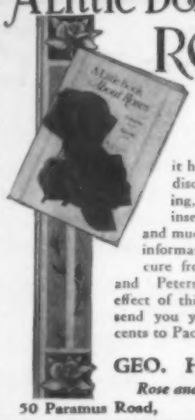

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. . . a house becomes a beautiful home . . . in 3 short months

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Immediate results in picturesque settings that fit individual planting problems distinguish the service of our Landscape Department. No home acquires an atmosphere of charm without appropriate surroundings of trees, shrubs and flowers.

We offer no stereotype plans—each problem is treated individually. One of our staff, visits your property. He learns your ideas, and fits them into a complete plan that includes all trees and plants, grading, terracing, drainage, location and grouping of buildings, transplanting of trees, entrance gates, drives, masonry, construction, pergolas, garden gates, tea houses and garden furnishings, garden pools and swimming pools, special rock gardens, rose gardens and formal gardens, and woodland effects such as bridle paths and waterfalls.

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Choose from world's largest stock of OWN-ROOT lilacs—over 160 new French varieties. All colors—white, red, lavender, blue, pink, purple. ALL GUARANTEED TRUE TO NAME. Don't confuse Brand's Own-Root Lilacs with ordinary lilacs budded or grafted on privet. Brand's Lilacs are hardy. For strong thrifty tops and large magnificent blooms, Brand's Lilacs are GROWN ON THEIR OWN ROOTS—no danger of suckers choking out mother bush. To avoid disappointment, send to BRAND.

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Water gardens in the making

Continued from page 332

the water. To produce the noise of a waterfall it may be necessary to cut grooves in the sandstone ledge or even undercut below to form a lip. A grotto or cave back under the waterfall makes an excellent sound box as well as a dark background for the silver threads of water.

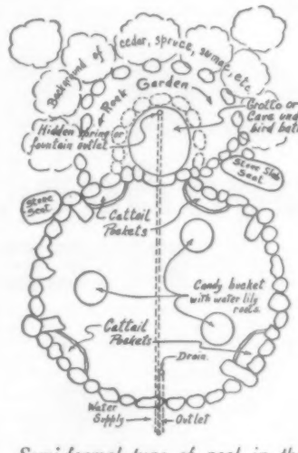
If the pond is to be of the formal type it should be located to conform best with the formal surroundings. An informal pool may be placed anywhere so long as it shows to advantage from frequented spots in the garden. This is especially true of the water garden that has no fixed water supply or drain. Such a pond six to ten feet long and three or four feet wide of irregular shape is very satisfactory. Water may be supplied from the garden hose. Since perspective foreshortens the apparent size of the pond, a small pool should have its water line nearly on a level with the surrounding ground or it will be quite invisible except at close range. A greater reflecting surface will be presented if the pool is so placed that one can look down its entire length.

If all the work be done by yourself the only factor of expense is the cement and gravel necessary for making the concrete. The best mixture to use is what cement workers term a one-two-three mixture; that is: one part of good cement, two parts of sharp sand, and three parts of screened gravel. If the pool is to be built in a clay soil it will be necessary to purchase screened cinders sufficient to provide a six-inch layer under the concrete for drainage to prevent frost heaving. Sandy soils provide sufficient drainage, so that the cement can be laid directly on the floor and against the walls of the excavation. In clay soils it may also be advisable to use reinforcement in the concrete—chicken wire or small mesh wire fencing.

Work may be started by driving stakes into the ground at intervals sufficiently close together to designate the outside limits of the pool. Remember, for excavating, to add from twelve to twenty-four inches extra to the inside finished length and breadth to allow for the thickness of the retaining walls, stones and cinders as needed. Do not forget that small ponds should have their water line close to or even with the surrounding ground, while long or large pools may have the water level several inches below the enclosing soil. Excavate to the proper depth accordingly, allowing not less than five inches for the thickness of the cement floor of the basin and an additional six inches for the layer of cinders, if needed.

The depth of the excavation will also be governed by the type of retainer to be used for the Waterlily roots. If the retainer is sunk below the level of the bottom of the pool the depth of the water need not be much greater than twelve inches. If placed in receptacles resting on the floor of the pond a depth equal to the height of the root container must be added. In the latitude of Grand Rapids, Michigan, roots have been left in retainers sunk below the pool floor the entire winter with no covering other than the leaves and snow that drifted into the basin, and in May the plants reappeared as alive as ever to flourish throughout the summer. For root containers wooden lard or candy buckets are used. When placed on the bottom of the pool, piles of stones are set in cement so fixed that the bucket is hidden, but may be lifted out and placed in a warm cellar or garage during the winter months, after the pool is drained.

Now dig the bucket holes, and if the containers are to be placed below the bottom of the pool, make the holes ten inches greater in diameter than the bucket and as deep as the bucket is high. Also arrange now for Cattail pockets, if desired. If running water and a drain are to be used, the ditch for laying the pipe lines should be dug at this time and the necessary pipes laid.



Semi-formal type of pool in the author's garden near Grand Rapids, Michigan, built according to the details explained herewith. The photograph below shows the stage of construction when the walls had set and the first row of stones were in place

Water gardens in the making

Cover the bottom of the pool cavity with a well-tamped layer of screened cinders about six inches thick, if on a clay bed, and the concrete mixing may be started. In a clay bed make the pool deep enough to set the containers on the floor of the pond. Use a rather wet or quaky mixture. Place concrete at the bottom of the bucket holes about five inches thick. Set the buckets in place and pour concrete all around them. Tamp well, especially close to the surface of the bucket, so as to fill all voids. Tapping around the inside of the bucket helps to bring the fine cement close to the surface of the tubs, and makes the concrete more water tight. Small stakes driven into the earth or cinders at intervals over the bottom of the excavation and projecting six inches above it will help as guides, to lay the concrete to a uniform thickness. Pour the concrete to within an inch of the tops of the stakes, and then withdraw them, tamping all concrete well to prevent voids. Build up the sides well above the water line. Set in large flat stones or slabs, such as old pieces of sandstone curbing, which will jut into the water or stick out over the pond for reflections and contrasts. Form a mental picture of the contour of the pool as you wish it to appear, and arrange the shapes and sizes of stones conveniently around the edge. As soon as the concrete side walls have set sufficiently, place the first row of stones and cement them in place. Be sure to wet all stones well in a tub of water so that moisture will not be absorbed from the cement. It is well to lay the concrete forming the pool basin all in one day to avoid seams and possible leakage.

Build the basin water tight a few inches above the ground level with cement and stones so that earth will not drain into the pool with every rain. A mixture of rich cement, one part cement and one part sand, should be troweled or brushed over the entire surface of the concrete about one quarter to one half inch thick to make the basin water tight. This may be done as soon as the first row of stones around the pool has been put in place and do not wait until the concrete has set and become surface dry or the rich cement will not stick. If pieces of wood are laid about the floor of the basin to walk on, the mixture may be troweled on while waiting for the side walls to harden sufficiently to support the stones. If done after the stones are laid be careful not to get the cement mixture on the exposed surfaces where it will detract from the natural beauty of the rocks. Allow ample spaces between the rocks for moss to grow, and roughen slightly the cement between the stones so that the moss may obtain a firm footing. Moss, and there are scores of varieties, chucked into all the crevices and capping the crests of stones at the surface of the water presents the effect of age.

The day after the cement has set fill the basin with water to "cure" the cement, making it harder and more durable. If you will now put on hip boots, the water in the basin will in no way interfere with the laying of the remainder of the stones around the pool nor with the construction of the rock garden wall, grotto, or cave as may be desired.

Rocks for my own pool were gathered before the actual work was begun. The source of supply varied. An old sandstone foundation of a house destroyed by fire furnished several excellent pieces; the city dumps unearthed pieces of sandstone slabs formerly curbing; gravel pits and near-by rocky farmland supplied the greatest number, while odd formations were eagerly sought along the country roadside. All were brought to the lot in a sedan car the back seat of which had been removed. If a trailer is available collecting the stones is made much easier. Remember, however, that stones are heavy.

Waterlilies can be had in a great variety of colors, even the hardy ones. And the tender tropical kinds defy description of their gorgeous brilliancies. Get them from a specialist at the end of May. Plant in tubs filled with a mixture of rich garden soil of which one fourth is well-rotted manure. They should be set just out of sight in the tubs, no deeper. To prevent the water from becoming riled and discolored by the earth use a clean layer of beach sand and fine gravel to top the filling in the buckets. Place any other aquatic plants in the pockets i.e., Cattail, Arrowhead, Pitcherplant, etc., using the same kind of soil as for the Waterlilies, after which fill the basin with water.

Recent Roses of real merit

Continued from page 325

that we may discover in certain understocks a means of bloom persuasion. Let me also with pleasure announce that at last nurserymen have discovered this superb Rose, first "showing its stuff" at Breeze Hill in 1928 on plants brought there in 1927.

There are other Australian immigrants deserving mention here among the Large-flowering Climbing Roses, several of which also tend to gladden us with flowers in the late autumn. Kitty Kininmonth, Miss Marion Manifold, and Black Boy are the pleasant names of three colorful gems, all in shades of crimson that run to the very darkest in the last named. All have proved hardy at Breeze Hill and all are abundantly worth while. The latest to arrive in America, the largest and richest in deep crimson, is Countess of Stradbroke, but she has so far smiled on us only in the early summer, though the great Australian hybridizer, Alister Clark, who is the responsible author, insists that on the other side of the globe the smile is continuous.

To them must be added in lighter shades the dainty Daydream and the richly pink Nora Cunningham among the Australians, and the truly splendid Spanish beauty Mme. Gregoire Staechelin, before mentioned, badly handicapped by its awkward name.

Not enough rose folks yet enjoy Dr. Van Fleet's only cross into the Pernetiana group—a Rose he particularly loved but which he did not live to see get its real stride of

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Recent Roses of real merit

growth. The superb Breeze Hill must have two or three years to establish itself before it puts on its crown of immense sunrise flowers.

But I surely must mention Mermaid, the only Rosa bracteata hybrid of which I have information, not only because it does continuously give its five-inch single primrose blooms, but because its foliage is decorative and different. It is not dependably hardy north of Harrisburg, I fear, though I have learned that its apparently dead canes are able to send forth blooming wood. Let me urge its possessor to prune it not at all.

We are seemingly coming toward a worth while hardy yellow climber, long desired. Emily Gray gave us the color and the sweetness several years ago, but is not safely frost-hardy north of Philadelphia. Our hopes were turned to Star of Persia, but that Rose proved to be too temperamental in its bloom ideas. Le Rève did and does better by far, and the newer Primrose seems to be coming into the picture most pleasantly, though with blooms that are not large. We are now to expect much of a Rhode Island Rose of climbing habit which will doubtless go into commerce as Golden Climber. This Rose promises well in size and maintained color, as does another yet unnamed Setigera Hybrid carrying good color into the section where 20-degree sub-zero temperatures have heretofore wiped out other Climbers.

I could write much of my preferences, introducing Jacotte, Albertine, Coralie, Thelma, and many others, all lovely and all useful in the modern rose garden, framed in arches and pillars that are glorious in their June bloom and, restfully decorative with good foliage until hard freezing bares their twigs to winter's tracery of snow, sleet and hoar-frost. My rose garden is entertaining, at least to me, full 365 days in the year!

Now how are we getting on with the Hybrid Teas that make up most of our rose gardens? The answer is that we are developing a taste for large, somewhat loose and altogether lovely forms, and warming their colors into the apricot, salmon, and almost pure orange shades. Since in 1900 the wonder-working Pernet-Ducher brought the rich Rosa foetida coloration under partial control in Soleil d'Or, an indubitably once-blooming Hybrid Perpetual, the progress has been continuous. He at once bred the new color into the Hybrid Tea current, and other breeders kept on with it. Troubles came along with the advantages, alas! Huge thorns, beautiful leathery foliage that looked as if it could endure anything but is always inviting blackspot along with its disposition for early maturity—these demerits have had to be bred away from, without high success in the endeavor. Yet we cannot spare the sunset hues that distinguish a class called "Pernetiana," though it is clearly Hybrid Tea in its combination of the remote strains of the old Tea, Bourbon, and other groups now indistinguishably mingled.

In form the tendency is away from the plentiful petalage of the original and yet lovely first Hybrid Tea, La France. We seem to prefer a somewhat pointed bud, of which a petal quickly and cunningly curls outward, as in Rev. F. Page-Roberts when that elusive variety is behaving. Another ideal in form and almost in color is the crimson-scarlet Etoile de Hollande, not yet excelled in beauty, form, and fragrance, though now National Flower Guild (an awful name!) is in the open outflowering it, though not in the shade outgrowing it.

Yet we accept gladly the fuller form of Dame Edith Helen and Mrs. A. R. Barraclough, and I have yet to hear anyone fail to express high admiration of the rather full petalage of Margaret McGredy—probably because this great Rose offers us a different, almost entirely novel shade of indescribable light scarlet. The new Olympiad to be sprung on the rose world from Los Angeles during the Olympic games even brightens this peculiarly pleasing shade.

Of the making of red Roses there seems no end, and I could name a dozen that are good, but not different enough to be sure about. We need a moratorium at least on red Roses! Souv. d'Alexandre Bernaix has pushed itself up by growth habit, and The General by its even, low loveliness. Joyous Cavalier is upstanding with its showy but careless blooms, and offers little improvement upon Gruss an Teplitz.

I watch the throngs of visitors who on entering the Breeze Hill rose garden at first do the usual admiration stunt about the circle-segment of varieties grouped in general color similarity, and then promptly head for the yellow and salmon quarter. We are all sun-worshippers! Of course the first yellow "big noise" is the aggravating Souvenir de Claudius Pernet, which may, if it is feeling that way, exhibit its unpleasant black or blasted center. Its daughter, Mme. Erskine Pembroke Thom, is not ashamed of its heart, but sometimes pales much in color, being nevertheless the better Rose, as I see it.

When another candidate for sun honors came along tagged with another long and awkward name of a fine lady, it was especially interesting because it brought in the potent Ophelia strain through its seed parent. At first Mrs. Pierre S. du Pont hung fire, probably because it had been worked toward weakness through the use of immature buds, but it has recovered and shows much good bloom on a rather low plant.

Dispute has raged about Ville de Paris and Julien Potin, both seedlings of Souvenir de Claudius Pernet and both sent out within a year by the originator of that variety. Both are admirable some places, some times, and there are those who believe them to be mighty near the same. I wonder!

As I write these words I am looking at the literally amazing blooms of a clear yellow Talisman sport which if it does as well outdoors as it seems to be doing indoors will be good enough for anyone. Its buds were good, but its open blooms, even after four days, are astonishing. It will come along in due course as "Souvenir," I am told.

Lighter in the yellow scale is the

Recent Roses of real merit

fine Australian Hybrid Tea, Golden Dawn. Large and lovely it is, with an admirable habit. An observer who writes in "The Proof of the Pudding," which each year presents in the American Rose Annual the assembled information of a half-hundred shrewd observers, calls it "the loveliest and easiest to grow of all the new yellow varieties."

In that difficult zone between red and yellow are found many candidates. Lady Margaret Stewart gave vast pleasure, but too seldom. Rev. F. Page-Roberts sprawls as no clergyman should, yet we listen. Jules Gaujard warms my enthusiasm; he stays. Charles P. Kilham deepens the color, but is quite erratic in habit.

Mevrouw G. A. van Rossem is one of a group of Holland hybrids named to be disregarded. This particular Mevrouw has rich color which is as variable as its name is bothersome.

Three American Roses of high merit come into this red-and-yellow zone and increase its importance. Talisman, ideally named, is a garden gem in color and in bloom and growth habit. It now fully belongs. President Herbert Hoover has a totally different color expression, but it complements Talisman. Literally astonishing is the orange-brown bud of Autumn, certainly well named and almost as well behaved. It is not closely comparable with any other Rose in the color of its bud, though I have recently seen an offer from Spain of a new Rose which approximates it.

Somewhere in this color vicinity ought to be considered another American Rose, well called Gaiety. Sometimes pale, sometimes intense, it is always interesting and beautiful. I call it essential to the smaller rose gardens.

PINK ROSES EVER POPULAR

Of the making of pink roses there has certainly been a great superfluity, for pink is the natural rose color. We can consequently be critical as to the new introductions, wherefore I am not here giving any space to scores of them that are good, but not dominantly so. Among the Ophelia sports Rapture may be mentioned, however, as it seems to push up the Ophelia quality. Then come in several that touch upon the sunset hues and thus acquire merit. Of these is the delightful Edith Nellie Perkins, said by a Canadian observer to show "a combination of orange, yellow, and salmon-pink well maintained." Comes now an entirely different and (to English language groups) badly named Rose Kardinal Piffl which gives good flowers on a not very vigorous plant. In the same general color range is the very beautiful Leonard Barron, intended to compliment the horticultural editor of this magazine.

When "Andrew H. Brown speaking" is full of desire to make what he calls "a impress," he unknowingly speaks for a Rose of just that name that always does it. Impress has great open blooms that mingle the desirable hues in a distinct flower on a not too strong plant. Each flower is an event.

Just here I wish I could have as much Eastern enthusiasm for Miss Rowena Thom as I had when I saw that lady in Exposition Park, Los Angeles. In Washington it has distinguished itself by immense growth and persistent bloom, but elsewhere on the Atlantic Coast it does not seem to register.

Not really new is the exquisite two-toned Betty Uprichard. Nothing touches it in unique beauty in June, but it doesn't keep on. Yet I can't spare it.

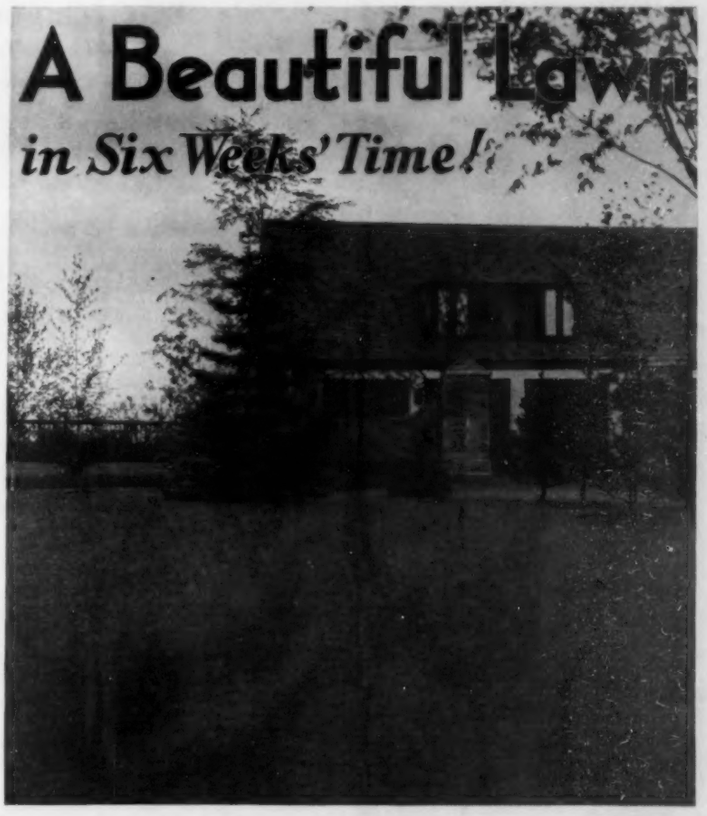
Reluctantly, because of its name, I mention the deep pink Rose upon which has been bestowed my uneuphonious cognomen. The qualities that do commend Editor McFarland are its vigor of plant, its continuity of bloom and the remarkable endurance of these solid and even pink blooms when cut.

THE NEWER WHITE ROSES

Perhaps I ought to say a word about the newer white Roses. Caledonia, Nuntius Pacelli, Abol, Edel are all good, and scarcely vary in any serious way from the old Mme. Jules Bouche. To me the ideal white rose is the pink-fleshed Miss Willmott, which, alas, does not always behave as well as those I have mentioned and is therefore now excluded from the Breeze Hill garden.

It was in 1903 that a French hybridist crossed Crimson Rambler on one of the Dwarf Polyantha Roses of the day. The fine result of course he named for his wife, Mme. Norbert Levavasseur. The Rose "took," but the name did not in America, and soon it was in commerce as "Baby Rambler," though it surely doesn't ramble and it isn't much of a baby. That first good constant-blooming quite hardy dwarf-habit Polyantha has been followed by many much better and very beautiful sorts. None has yet superseded the indispensable large white, pink, and chamois of Gruss an Aachen, but there came to Breeze Hill from Australia in 1927 the light pink Mrs. R. M. Finch which is so persistent in bloom and so beautiful in its habit that it has now broken into the reserve of American nurserymen. Taken with Chatillon, Lafayette, Ideal, and a half-dozen others, a group of great importance is available to gardeners wise enough to use them not only in the rose garden but for foreground material anywhere. Some brilliant orange shades are now appearing, one of which is breaking into commerce under the name of Paul Grampel. There are several that bloom in beautiful orange but fade into pink mud; I do not mention them.

So much for the Rose variety details, expressing only my own opinion. Experience has forced me to the conclusion that most Roses are intensely local in their adaptability. This is just as it should be, because it gives zest to what I repeatedly refer to as the lovely adventure of rose growing. I am no patent medicine prophet of sure-thing "favorite-dozen" Roses. Buy them, try them, love them, scold them, tell about them, discard some of them. So shall your failures all profit you.



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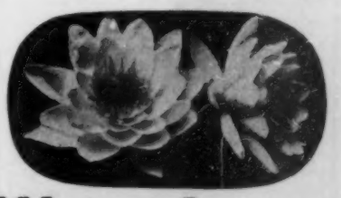

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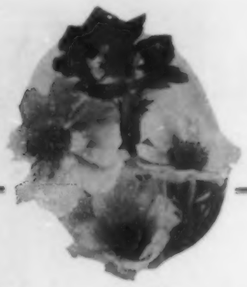

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The FISCHER NURSERIES
Evergreen Dept. 48 EASTON, PA.
Add 25c for Packing

Succeeding with succession

Continued from page 327

varieties in small patches is not desirable either.

The garden plan shown on page 327 is worked out in sections. The length of fifty feet is divided into five ten-foot divisions and the ten-foot width makes these sections square. It is not thought that the plantings as suggested are perfect, but they are a basis for a start. In the fifty-foot borders as planned a wide variety of perennials and bulbs is used. These, of course, must be supplemented by liberal plantings of annuals, particularly among the varieties which bloom during the early part of the year. If no succession plantings are made around and among these early blooming spaces there will be large blank areas through the latter half of the year. Two of the most important perennials blooming during the first half of the year are Peonies and Iris. They both occupy rather large areas but there are numerous annuals which may be planted among them. Tall African Marigolds make excellent masses when blooming above Peonies, and giant Zinnias do well between clumps of Iris. Annual Larkspur, Salpiglossis, Nicotiana, Petunia, Verbena, and a host of others may be used liberally all through the borders.

Succession of bloom and mass color effects demand rather close planting. This requires careful soil preparation and adequate food supplies. Crowded plantings are all right with intelligent care, but if neglected they quickly become unsightly. Some things will stand closer planting than others. Vigorous perennials like Hollyhocks will smother out their less sturdy neighbors if planted too close. Chrysanthemums will struggle up between other things where there seems to be but little room, though they do a lot better if not much crowded. Lilies seem to enjoy being planted almost under other things as many, like the wonderful Regal, may be planted eight to ten inches deep.

In the plan the lightly ruled squares indicate feet, thus showing the approximate size of spaces and plant groups. Smaller groups may be used in limited areas. These plant arrangements explain themselves, the shape and relationship of the various spaces showing how they drift into each other. The entire border is strictly informal with no rows or balanced groupings. No two of the ten-foot square areas are alike, though there is a certain similarity. Sixteen different varieties of Peony are used and twenty-seven clumps of Iris.

The numbers in the plan indicate approximately the month of blooming. This will vary in different sections of the country. The ten-foot square spaces may be adapted to eight by twelve or seven by fourteen.

Planning for succession of bloom is a question of choosing, from the vast stocks available, those which will keep the display of color as nearly constant as possible. Let us examine one section of this border, say the middle one in the upper

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Farm

Succeeding with succession

border. Early spring will find two gay splashes of color in the front of the border, the Candlestick Tulip (Tulipa clusiana), and the Barri type Narcissus Firebrand. Following these the Dutch Bulbous Iris open and soon after this the valuable Jersey Gem Viola begins its long season. Aquilegia, Coreopsis, and the Tall Bearded Iris come soon after this with Peonies, Dianthus, and Delphinium following.

Summer bloomers in this section include Hollyhocks, Achillea, Phlox, Aconite, Veronica, and Henry's Lily. By this time the inter-planted annuals will start adding their bit to the display and Coreopsis and the Violas will continue to make goodly masses of color especially if they are sheared back to encourage fresh growth. Delphinium should also be cut back as the first bloom fades.

The fall borders will be largely annuals which reach their climax at this time. Chrysanthemum Capt. Cook and Aster Mrs. Raynor complete the show as far as the perennial planting goes. Phlox will continue well into the fall if cut back when the blooms fade. Likewise Viola and Coreopsis will keep on till frost with another shearing.

In planning this garden special care has been used that colors shall work well together especially with things blooming at the same time. The Iris combinations have been worked out in actual plantings and many other things the same way. Some may think there are varieties mentioned not commonly grown, because you will not find them in every nursery; but such things may be purchased from specialists and to much better advantage. With Iris for example, there are growers in many sections of the country who list every variety used in this plan. The same applies to Peonies. These quality kinds are not expensive, because they are not in the "novelty" class.

Similarly you may not find in the average nursery catalog all the perennials suggested here. There are, however, large nurseries in many sections of the country who do grow everything listed. Your local nursery will grow more things if there is a demand for them.

As you look over this planting plan doubtless there are numerous things with which you are not familiar. None but a thoroughly experienced gardener can be expected to know all the perennials offered to-day. You should, however, take your catalogues and look up every variety you do not readily recognize. Check up on their color, season of bloom, and height. Also try to learn something about their habit of growth, whether upright, spreading, or prostrate. This information may not be found all in one catalogue as very few lists give complete descriptions. If you want to learn all the essential features, the recently published *Hortus* by Dr. L. H. Bailey will serve. This is a horticultural dictionary of all plants grown in this country and to the real garden enthusiast is well worth the price of ten dollars. The more you can learn about the greatest number of plants the better garden you can produce.

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Making the new lawn

Continued from page 328

enough topsoil is available, more should be purchased or the soil should be improved with well-rotted manure, compost, or peat moss mixed in. These three materials add humus to the soil and improve the water holding capacity as well as the air and soil-water circulation.

If the soil is a heavy clay, the structure can be further improved by using sand. An inch or two spread over the entire surface and then worked into the top three or four inches will do this nicely.

With the vital matters of physical structure and organic matter disposed of the next consideration is plant food and soil acidity. This is best taken care of by applying a good prepared plant food. The manufacturers furnish instructions as to the correct amount to apply. The quantity to use will vary from ten to forty pounds per 1000 square feet, depending on conditions.

Most soils in eastern United States, through years of cropping and leeching, have become deficient in certain basic elements, and an unbalanced or acid condition has developed. Best lawn results are not obtained unless this acidity is corrected. This is easily done by applying some form of lime. Because it is obtainable at garden supply and building material stores, hydrated lime is usually used. This form of lime is very finely divided, and it neutralizes the soil acids quickly. Lime is also of value in making heavy clay soils looser and more friable.

Before the lime is applied it would be best to ascertain whether or not it is needed. This can be done by testing a small, representative sample of the soil with any one of several inexpensive soil testing kits for sale at most garden supply stores.

It may be well to emphasize that lime does not take the place of the plant food nor can plant food take the place of lime. Each material has an important and quite different duty to perform. A period of from one to two weeks should elapse between the applications of these two materials. Never distribute together nor at the same time.

It is quite probable that some reader will hesitate to accept the foregoing statements on lime. For the past several years many writers on this subject have been very positive in condemning this material for use on lawns and reliance on acid soil grasses or land where lime deficiency prevailed has been over emphasized. Recent research, however, has disclosed the fact that the most liked lawn grasses (especially Kentucky Bluegrass and White Clover) grow best when the soil is about neutral or, at most, only slightly acid. Several eminent turf authorities could be quoted in support of this statement.

Experiments show that thick sowing of seed tends to keep the weeds in check. Use three to four pounds for each 1000 square feet of area. Divide the seed into two parts and sow two ways—one at right angles to the other—for an even distribution. After sowing give the surface

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a light raking to just cover the seed. Use only pure, high quality seed.

Kentucky Bluegrass is unexcelled for lawns. It may be a little slow in getting a start but once established it reigns supreme as a permanent lawn grass. To act as a nurse-crop for the Bluegrass some Redtop is used in the mixture. This gives the lawn a green appearance quickly, and by virtue of its rapid growth, tends to keep weeds from starting. The use of White Clover is a matter of personal choice. One very important reason for incorporating it in the mixture is its ability to enrich the soil with nitrogen. Nitrogen is essential to grasses. A mixture which has met with the approval of many is made up of four to eight parts Kentucky Bluegrass, two parts Redtop and one half part White Clover. If the lawn is shaded, two to three parts of Red Fescue can be substituted for an equal amount of the Bluegrass. Most seedsmen have satisfactory mixtures already prepared however for open and for shaded lawns, and generally the home gardener will do best to rely on such.

The foregoing mixtures will be found quite satisfactory over about three fourths of the United States. However, in the South, Bermudagrass is commonly used. Nothing has yet been found to take its place, although Carpet-grass and Centipedegrass are also satisfactorily used in some localities.

Lawns seeded in the spring of the year must have careful attention to all the little details because at that time both grass and weeds get an equal start. In the northern half of the United States it is better to sow the seed in the fall. This gives the grass a chance to get started without serious competition from weeds. In the southern states spring seeding has been found to be the better time.

Once established, the proper maintenance of a lawn is neither difficult nor expensive. An annual, early-spring application of a complete prepared plant food plus one or two summer applications will keep the grass growing thriftily; a ready prepared "complete" plant food is far less trouble to use than attempting to mix separate ingredients yourself. Water immediately after applying as otherwise the grass may be injured by burning. To prevent the soil from becoming too acid, give a moderate application of lime (fifty pounds per 1000 square feet) once every three to five years, either in early spring or late fall.

During periods of insufficient rainfall sprinkle the lawn once or twice a week, and remember that thorough soaking encourages deep root development and is preferred to light sprinklings.

In the spring of the year roll the lawn once—this firms the turf and keeps the surface smooth. Rolling should not be done when the soil is very moist or too much compaction may result.

Weeds are not apt to be a serious problem if the lawn is started on good soil with weed-free seed and kept supplied with a complete plant food.

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Dividends from digging

Continued from page 331

clayey soils a spading fork is to be preferred; and you cannot dig with a shovel. Remember that. Whether spade or fork be used, let it be of the best procurable type, not unduly heavy. In use thrust the spade into the ground with the foot in such fashion that the blade makes a slight angle with the vertical.

At least three modes of digging are in use, known respectively as single digging, double digging, and trenching. The first consists of turning over the soil to a depth of a single "spit" or spade's-depth, and is the most commonly practised method. The second involves turning over the soil to a depth of two spits and leaving the layers in the same relative positions. This mode of operation has much to recommend it, and should be practised wherever the top-soil is shallow and overlying an unimproved subsoil. Trenching is seldom done except when the highest quality of exhibition produce is required, for the labor expended in trenching a piece of ground is of necessity considerable. Trenching requires the soil to be moved to a depth of three full spits, the layers of soil either being left in their original positions or the two top layers reversed.

The mode of procedure when single digging is as follows: A trench one foot wide and of a full spade's-depth is taken out at the commencement of the job, the soil removed being placed where the finish will be. In a narrow piece of ground this will be at the opposite end, but when the piece to be dug is comparatively wide it is often advisable to divide it in half, working down one portion and back along the other. Then the strip of soil alongside the trench is turned over with the spade and placed top-side downwards in the trench. In this way a new trench is formed, and the next strip of soil is turned into it and so on until the finish is reached, when the soil removed from the first trench is used to fill in the last. It is important that the surface be kept as level as possible. Should the trench become noticeably bigger during the operation it is certain that the digging is getting low, while a narrowing trench indicates a reverse state of affairs. Manure and fertilizer may either be spread upon the ground and turned under as the work proceeds, or may be placed in each separate trench. All weeds and surface vegetation should be skimmed off and buried in the bottom of the trench, with the exception of any diseased material which should be burned.

For double digging a trench is taken out and the soil placed at the finish exactly as advised for single digging, but in this case the trench is to be thirty inches wide and a full spit deep. The bottom of this trench is then dug over deeply, incorporating therewith at the same time a liberal amount of manure, leaf mold, humus, or decayed material off the compost heap such

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Dividends from digging

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The trench to be taken out for trenching depends on whether or not the first and second spits are to be reversed. If so, it should be three feet wide and two spits deep. The bottom is then dug over as in double digging, and the top spit of trench number two placed immediately thereon. The second spit of trench two goes on top of this, and then the bottom of the second trench is ready to be dug. If trenching is to be done and the soil layers left in their original positions a commencement is made by taking out a thirty-inch trench to a depth of two spits and also the second trench to a depth of one spit. The bottom is turned over as before, the second spit of trench two being placed on it, and then the top spit of the third trench on top of this again, and so the work proceeds, systematically and without wasted effort.

In and about the garden

Continued from page 368

leaven of interest thus started may be spread into wider circles and the local gardens attain greater heights of beauty while their owners become more skilled in plant knowledge.

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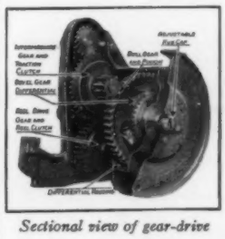

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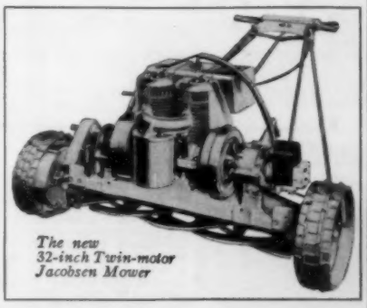

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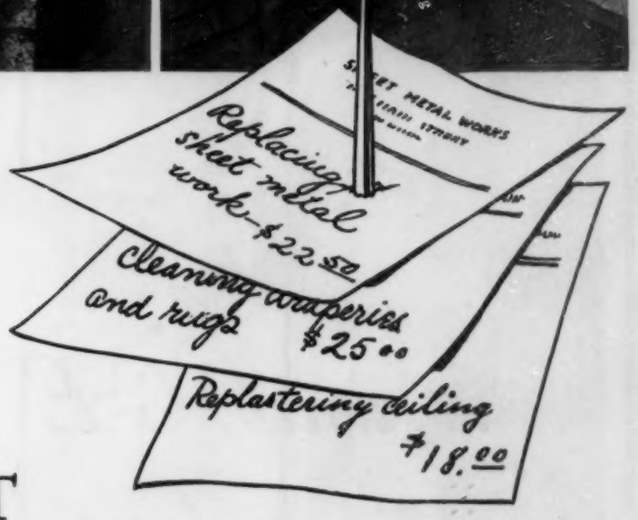

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